Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

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eMethods. Data Sources

MBR includes data on all live births and stillbirths in Finland since 1987 with a gestational age of ≥ 22 weeks or a birth weight ≥ 500 g. The Finnish Register on Reimbursement Drugs (RRD) is kept by the Finnish Social Insurance Institution (SII). Since 1994, RRD has registered all reimbursed drug prescriptions (ATC-code) that were dispensed at pharmacies. The Finnish Care Registers for Health Care (HILMO) contains data on all hospital in-patient treatments (since 1969) as well as out-patient treatments by physicians in specialized care (since 1998), and covers adult psychiatric diagnoses well according to validation studies,¹ while there is only one validation study on pediatric psychiatric diagnoses in HILMO, and that one reported good validity for pediatric autism spectrum disorder.² Information from the different registers and datasets were linked and merged using personal identification numbers (PIN) assigned to all Finnish citizens and permanent residents.

References
1. Sund R. Quality of the Finnish Hospital Discharge Register: a systematic review. Scand J Public Health 2012; 40(6):505-515.
2. Lampi K, Sourander A, Gissler M, et al. Brief report: validity of Finnish registry-based diagnoses of autism with the ADI-R. Acta Paediatr 2010; 99(9):1425-1428.
eTable 1. ICD-10 Codes and Corresponding Neuropsychiatric Disorders and Median Age at Onset of Diagnoses After Birth Until 2018

Median with 25th and 75th percentiles.

| ICD-10 codes | Offspring disorders                        | Proportion identified of the cases predicted to be diagnosed before 22 years of age, %<sup>a</sup> | Age at onset. Median (year) |
|--------------|-------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------|
|              |                                            | Birth cohort 1996-2014                                                                            |                             |
|              |                                            | Median                                                                                           | 25<sup>th</sup>–75<sup>th</sup> percentiles |                             |
| F20-29       | Psychotic disorders                        | 30.3                                                                                             | 14.1                        | 9.0-16.7                    |
| F30-39, F92  | Mood disorders                             | 46.5                                                                                             | 13.6                        | 9.0-16.0                    |
| F40-43, F93  | Anxiety disorders                          | 55.5                                                                                             | 12.4                        | 7.6-15.5                    |
| F50          | Eating disorders                           | 43.7                                                                                             | 14.2                        | 11.5-15.8                   |
| F51          | Sleeping disorders                         | 61.3                                                                                             | 1.9                         | 0.8-9.9                     |
| F60-69       | Personality disorders                      | 34.6                                                                                             | 14.2                        | 8.4-16.9                    |
| F70-79       | Intellectual disabilities                  | 83.2                                                                                             | 3.8                         | 2.6-5.5                     |
| F80-83       | Specific developmental disorders           | 93.8                                                                                             | 5.3                         | 3.8-7.3                     |
| F84          | Autism spectrum disorder (ASD)             | 86.2                                                                                             | 5.8                         | 3.6-8.9                     |
| F90–91       | Attention deficit hyperactivity disorder (ADHD) and conduct disorders | 88.4                                                                                             | 7.8                         | 5.7-10.5                    |
| F98          | Other behavioral and emotional disorders    | 100.0                                                                                             | 6.1                         | 4.1-8.5                     |

Abbreviations: ICD-10, International Statistical Classification of Diseases and Related Health Problems, 10th Revision. IQR, interquartile range. ASD, Autism spectrum disorder. ADHD, attention deficit/hyperactivity disorder.

<sup>a</sup>Proportion identified of the number of cases predicted to be diagnosed before 22 years of age. This was estimated as number of children diagnosed latest 2018 in the 1996-2014 birth cohort divided by the following: the proportion of children with diagnosis in the 1996 birth cohort, times (*), the total number of children in the 1996-2014 birth cohort.
eTable 2. Numbers in Exposure Groups and Offspring Neurodevelopmental and Psychiatric Disorder Outcome Groups

1,012,723 singleton live births 1996–2014 in Finland followed until 2018.

| Exposures<sup>a</sup> | No. (%) |
|------------------------|---------|
|                        | Any F-diagnosis (n=93,281) | Psychotic disorders F20-F29 (n=2904) | Mood disorders F30-39, F92 (n=38,293) | Anxiety disorders F40-43, F93 (n=50,731) | Eating disorders F50 (n=6,029) | Sleeping disorders F51 (n=6,153) | Personality disorders F60-69 (n=3,195) | Intellectual disabilities F70-79 (n=8,014) | Specific developmental disorders F80-83 (n=55,326) | Autism spectrum disorders F84 (n=10,513) | ADHD & conduct disorders F90-91 (n=30,115) | Other behavioral & emotional disorders F98 (n=27,092) |
|------------------------|---------|
| No preeclampsia, no perinatal complications (N=953,197) | 85,147 (8.9) | 2,708 (0.3) | 35,763 (3.8) | 47,259 (5.0) | 5,615 (0.6) | 5,729 (0.6) | 2,942 (0.3) | 6,747 (0.7) | 49,442 (5.2) | 9,548 (1.0) | 27,461 (2.9) | 24,643 (2.6) |
| Preeclampsia without perinatal complications (N=21,030) | 2,014 (9.6) | 45 (0.2) | 733 (3.5) | 1,048 (5.0) | 118 (0.6) | 145 (0.7) | 57 (0.3) | 175 (0.8) | 1,357 (6.5) | 286 (1.4) | 744 (3.5) | 645 (3.1) |
| Preeclampsia with perinatal complications (N=4,891) | 798 (16.3) | 18 (0.4) | 176 (3.6) | 266 (5.4) | 35 (0.7) | 20 (0.4) | 20 (0.4) | 104 (2.1) | 638 (13.0) | 87 (1.8) | 239 (4.9) | 242 (4.9) |
| Perinatal complications, but no preeclampsia (N=33,625) | 5,322 (15.8) | 133 (0.4) | 1,621 (4.8) | 2,158 (6.4) | 261 (0.8) | 259 (0.8) | 176 (0.5) | 988 (2.9) | 3,889 (11.6) | 592 (1.8) | 1,671 (5.0) | 1,562 (4.6) |

<sup>a</sup>Preeclampsia was ICD-10 codes O11 or O14. Perinatal complications referred to SGA or delivery before 34 gestational weeks. The no preeclampsia, no perinatal complications group excluded maternal chronic hypertension and gestational hypertension.
**eTable 3. Number at Risk of Offspring Neuropsychiatric Disorders in Relation to Maternal Preeclampsia and Perinatal Complications**

1,012,723 singleton live births 1996–2014 in Finland followed until 2018.

| Exposures | Age in years | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|-----------|--------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Specific developmental disorders (F80-83) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No preeclampsia | | 0 | 1352 | 1121 | 2750 | 8025 | 8098 | 8182 | 5935 | 3292 | 2494 | 2116 | 1464 | 1171 | 913 | 711 | 629 | 565 | 272 | 133 | 43 | 22 | 13 |
| Perinatal complications only | | 0 | 306 | 233 | 338 | 593 | 573 | 612 | 405 | 224 | 141 | 109 | 93 | 51 | 58 | 31 | 27 | 25 | 15 | 8 | 3 | 0 | 1 |
| Preeclampsia without perinatal complications | | 0 | 43 | 31 | 97 | 224 | 245 | 223 | 168 | 77 | 70 | 42 | 37 | 27 | 18 | 15 | 13 | 11 | 7 | 4 | 0 | 1 |
| Preeclampsia with perinatal complications | | 0 | 63 | 43 | 71 | 101 | 87 | 101 | 67 | 24 | 18 | 18 | 11 | 12 | 5 | 3 | 8 | 3 | 2 | 1 | 1 | 0 | 0 |
| ADHD and conduct disorders (F90-91) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No preeclampsia | | 0 | 409 | 220 | 493 | 1392 | 1990 | 2993 | 3221 | 3359 | 3028 | 2401 | 1780 | 1358 | 1081 | 1106 | 1052 | 680 | 420 | 314 | 128 | 84 | 60 |
| Perinatal complications only | | 0 | 68 | 45 | 80 | 123 | 153 | 206 | 187 | 173 | 173 | 114 | 88 | 67 | 49 | 39 | 31 | 27 | 11 | 14 | 4 | 4 | 2 |
| Preeclampsia without perinatal complications | | 0 | 20 | 3 | 15 | 38 | 74 | 96 | 97 | 96 | 77 | 69 | 45 | 37 | 27 | 18 | 18 | 11 | 5 | 3 | 2 | 1 | 0 |
| Preeclampsia with perinatal complications | | 0 | 16 | 3 | 21 | 25 | 24 | 32 | 30 | 28 | 16 | 15 | 9 | 7 | 5 | 2 | 3 | 2 | 1 | 1 | 0 | 0 |

*No preeclampsia referred to no preeclampsia, no SGA, and born ≥34 weeks of gestation after excluding maternal chronic hypertension and gestational hypertension.*

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**Table 4.** Crude and Adjusted Hazard Ratios for Offspring Neuropsychiatric Disorders in Relation to Preeclampsia and Perinatal Complications (1 012 723 Singleton Live Births 1996–2014 in Finland Followed Up Until 2018)

Corresponds to Figure 2.

| Exposures | Any F. diagnosis (n=93 281) | Psychotic disorders F20-F29 (n=2904) | Mood disorders F30-39, F92 (n=38 293) | Anxiety disorders F40-43, F93 (n=50 731) | Eating disorders F50 (n=6 029) | Sleeping disorders F51 (n=6 153) | Personality disorders F60-69 (n=3 195) | Intellectual disabilities F70-79 (n=8 014) | Specific development disorders F80-83 (n=55 326) | Autism spectrum disorders F84 (n=10 513) | ADHD& conduct disorders F90-91 (n=30 115) | Other behavioral& emotional disorders F98 (n=27 092) |
|-----------|-----------------------------|--------------------------------------|----------------------------------------|----------------------------------------|-------------------------------|--------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|---------------------------------|---------------------------------|---------------------------------|
| **Crude model (Crude HR, 95% CI)** | | | | | | | | | | | | |
| No preeclampsia | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Preeclampsia without perinatal complications | 1.14 (1.09-1.19) | 0.91 (0.69-1.20) | 1.12 (1.04-1.20) | 1.18 (1.11-1.26) | 1.16 (0.97-1.39) | 1.22 (1.04-1.44) | 1.08 (0.83-1.40) | 1.20 (1.03-1.40) | 1.29 (1.22-1.36) | 1.43 (1.27-1.60) | 1.32 (1.22-1.42) | 1.24 (1.15-1.34) |
| Preeclampsia with perinatal complications | 2.05 (1.91-2.20) | 1.58 (1.02-2.45) | 1.19 (1.03-1.38) | 1.34 (1.19-1.51) | 1.52 (1.09-2.12) | 0.74 (0.48-1.15) | 1.65 (1.07-2.57) | 3.21 (2.64-3.89) | 2.75 (2.55-2.98) | 1.97 (1.59-2.43) | 1.94 (1.70-2.20) | 2.11 (1.86-2.40) |
| Perinatal complications only | 1.91 (1.86-1.96) | 1.61 (1.37-1.90) | 1.44 (1.37-1.51) | 1.44 (1.38-1.50) | 1.47 (1.30-1.67) | 1.35 (1.19-1.53) | 1.89 (1.62-2.20) | 4.36 (4.08-4.67) | 2.38 (2.31-2.46) | 1.89 (1.74-2.05) | 1.88 (1.79-1.98) | 1.93 (1.83-2.03) |
| **Adjusted model (Adjusted HR, 95% CI)** | | | | | | | | | | | | |
| No preeclampsia | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Preeclampsia without perinatal complications | 1.18 (1.12-1.23) | 0.97 (0.73-1.28) | 1.10 (1.02-1.18) | 1.13 (1.06-1.20) | 1.13 (0.94-1.36) | 1.18 (1.00-1.40) | 1.12 (0.86-1.46) | 1.22 (1.05-1.42) | 1.24 (1.18-1.31) | 1.23 (1.09-1.39) | 1.22 (1.13-1.31) | 1.14 (1.06-1.24) |
| Preeclampsia with perinatal complications | 2.11 (1.96-2.26) | 1.60 (1.03-2.49) | 1.18 (1.02-1.37) | 1.28 (1.14-1.45) | 1.40 (0.99-1.95) | 0.64 (0.40-1.02) | 1.54 (0.98-2.42) | 3.34 (2.75-4.06) | 2.82 (2.60-3.05) | 1.73 (1.40-2.13) | 1.88 (1.65-2.14) | 2.04 (1.80-2.32) |
| Perinatal complications only | 1.77 (1.72-1.82) | 1.40 (1.19-1.65) | 1.28 (1.22-1.34) | 1.28 (1.22-1.34) | 1.44 (1.27-1.63) | 1.07 (1.07-1.38) | 1.64 (1.41-1.92) | 4.22 (3.95-4.52) | 2.26 (2.18-2.33) | 1.67 (1.53-1.81) | 1.60 (1.52-1.68) | 1.81 (1.71-1.90) |

*Exclusion: Births with maternal in-hospital psychiatric disorder and those with maternal pre-gestational diabetes. Preeclampsia was ICD-10 codes O11 or O14. Perinatal complications referred to SGA or delivery before 34 gestational weeks. The no preeclampsia, no perinatal complications group excluded maternal chronic hypertension and gestational hypertension.

9 The analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66, yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy, and maternal systemic inflammatory disease (yes/no).
### eTable 5. Numbers in Exposure Groups and Offspring Psychotropic Medication Outcome Groups

1 012 723 singleton live births 1996–2014 in Finland followed until 2018.

| Exposuresa | No. (%) | Any medication (N=50 131) | Anxiolytics, hypnotics and sedatives (N=33 471) | Antidepressants (N=11 509) | Stimulants (N=14 547) |
|------------|---------|---------------------------|--------------------------------------------|----------------------------|----------------------|
| No preeclampsia, no perinatal complications (N=953 197) | 46 463 (4.9) | 31 060 (3.3) | 10 809 (1.1) | 13 283 (1.4) |
| Preeclampsia without perinatal complications (N=21 030) | 931 (4.4) | 592 (2.8) | 174 (0.8) | 332 (1.6) |
| Preeclampsia with perinatal complications (N=4 891) | 293 (6.0) | 198 (4.0) | 55 (1.1) | 94 (1.9) |
| Perinatal complications, no preeclampsia (N=33 625) | 2 444 (7.3) | 1 621 (4.8) | 471 (1.4) | 838 (2.5) |

aPreeclampsia was ICD-10 codes O11 or O14. Perinatal complications referred to SGA or delivery before 34 gestational weeks. The no preeclampsia, no perinatal complications group excluded maternal chronic hypertension and gestational hypertension.
### eTable 6. Sibling Pair Analysis in All First Pairs\(^a\) of Mothers With a Singleton Sibling Pair (n = 300 247) Among the 1 012 723 Births (Born 1996-2014) for Some Neurodevelopmental and Psychiatric Disorders in the Second Child

Adjusted Cox hazard ratios (HRs) and 95% CIs for the outcomes (columns) in the second child being some neurodevelopmental and psychiatric disorders from birth until 2018, in relation to exposure for the sibling pair to preeclampsia with perinatal complications.

| Exposure to preeclampsia with perinatal complications\(^b\) | Adjusted HR (95% CI) |          |          |          |          |
|----------------------------------------------------------|----------------------|----------|----------|----------|----------|
|                                                          | Any F-diagnosis      | Intellectual disabilities (F70-79) | Specific developmental disorders (F80-83) | ADHD and conduct disorders (F90-91) | Other behavioral and emotional disorders (F98) |
| Model 1\(^c\)                                            |                      |          |          |          |          |
| None of the siblings in the pair was exposed (n=298 066) | 1.00                 | 1.00     | 1.00     | 1.00     |          |
| Exposure in the first, not in the second pregnancy/child (n=1464) | 0.93 (0.75-1.14)     | 0.60 (0.27-1.33) | 0.99 (0.78-1.25) | 0.92 (0.65-1.31) | 1.00 (0.72-1.3) |
| Exposure in the second, not in the first pregnancy/child (n=597) | 2.05 (1.64-2.57)     | 2.52 (1.35-4.69) | 3.04 (2.44-3.78) | 1.77 (1.15-2.71) | 1.17 (0.70-1.94) |
| Both of the siblings in the pair were exposed (n=120)     | 3.00 (1.90-4.66)     | 3.98 (1.28-12.36) | 3.57 (2.25-5.66) | 2.36 (0.98-5.67) | 1.61 (0.63-4.29) |
| Model 2\(^d\)                                            |                      |          |          |          |          |
| None of the siblings in the pair was exposed (n=298 066) | 1.00                 | 1.00     | 1.00     | 1.00     |          |
| Exposure in the first, not in the second pregnancy/child (n=1464) | 0.86 (0.70-1.06)     | 0.55 (0.25-1.24) | 0.92 (0.73-1.16) | 0.85 (0.60-1.21) | 0.95 (0.68-1.32) |
| Exposure in the second, not in the first pregnancy/child (n=597) | 2.01 (1.60-2.51)     | 2.45 (1.31-4.55) | 2.95 (2.37-3.67) | 1.72 (1.12-2.64) | 1.15 (0.69-1.91) |
| Both of the siblings in the pair were exposed (n=120)     | 2.92 (1.86-4.57)     | 3.88 (1.25-12.04) | 3.49 (2.20-5.53) | 2.33 (0.97-5.60) | 1.58 (0.60-4.23) |

\(^a\) First sibling pairs were included, i.e. sibling 1&2.

\(^b\) Exclusion: Maternal in-hospital psychiatric disorder and maternal pre-gestational diabetes. Reference group was no preeclampsia (no ICD-10 O11 or O14) and no perinatal complications after excluding maternal chronic hypertension and gestational hypertension.

\(^c\) Model 1: The analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66, yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy (yes/no), maternal systemic inflammatory disease (yes/no), and intra-pregnancy interval.

\(^d\) Model 2: Adjusted for the variables in Model 1 and presence of the studied F diagnosis or psychotropic medication in the first child.
**eTable 7. Sibling Pair Analysis in All Mothers With a Singleton Sibling Pair** (n = 438,626)

Among the 1,012,723 Births (Born 1996-2014) for Psychotic Disorders, Anxiety Disorders, and Autism Spectrum Disorder in the Second Child

Adjusted Cox hazard ratios (HRs) and 95% CIs for the outcomes (columns) in the second child being (i) Psychotic disorders (F20-29), (ii) Anxiety disorders (F40-43, F93), and (iii) ASD (F84) from birth until 2018, in relation to exposure for the sibling pair to preeclampsia with perinatal complications.

| Exposure to preeclampsia with perinatal complications<sup>b</sup> | Adjusted HR (95% CI) |
|---------------------------------------------------------------|----------------------|
|                                                               | Psychotic disorders (F20-29) | Anxiety disorders (F40-43, F93) | ASD (F84) |
| **Model 1<sup>c</sup>** |                                                               | |
| None of the siblings in the pair was exposed (n=435,997) | 1.00                     | 1.00                            | 1.00                   |
| Exposure in the first, not in the second pregnancy/child (n=1614) | NA                     | 1.27 (0.95-1.68)               | 1.01 (0.57-1.78) |
| Exposure in the second, not in the first pregnancy/child (n=873) | 1.24 (0.17-8.82) | 1.22 (0.79-1.89)               | 1.60 (0.83-3.08) |
| Both of the siblings in the pair were exposed (n=142) | NA                     | 0.51 (0.07-3.61)               | NA                     |
| **Model 2<sup>d</sup>** |                                                               | |
| None of the siblings in the pair was exposed (n=435,997) | 1.00                     | 1.00                            | 1.00                   |
| Exposure in the first, not in the second pregnancy/child (n=1614) | NA                     | 1.17 (0.88-1.55)               | 0.93 (0.53-1.64) |
| Exposure in the second, not in the first pregnancy/child (n=873) | 1.20 (0.17-8.55) | 1.20 (0.77-1.86)               | 1.54 (0.80-2.97) |
| Both of the siblings in the pair were exposed (n=142) | NA                     | 0.48 (0.07-3.44)               | NA                     |

<sup>a</sup> All consecutive sibling pairs were included, i.e. sibling 1&2, 2&3 but not 1&3.

<sup>b</sup> Exclusion: Maternal in-hospital psychiatric disorder and maternal pre-gestational diabetes. Reference group was no preeclampsia (no ICD-10 O11 or O14) and no perinatal complications after excluding maternal chronic hypertension and gestational hypertension.

<sup>c</sup> Model 1: The analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66, yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy (yes/no), maternal systemic inflammatory disease (yes/no), and intra-pregnancy interval.

<sup>d</sup> Model 2: Adjusted for the variables in Model 1 and presence of the studied F diagnosis in the first child.
**eTable 8.** Sibling Pair Analysis in All First Pairs\(^a\) of Mothers With a Singleton Sibling Pair (n = 300 247) Among the 1 012 723 Births (Born 1996-2014) for Psychotic Disorders, Anxiety Disorders, and Autism Spectrum Disorder in the Second Child

Adjusted Cox hazard ratios (HRs) and 95% CIs for the outcomes (columns) in the second child being (i) Psychotic disorders (F20-29), (ii) Anxiety disorders (F40-43, F93), and (iii) ASD (F84) from birth until 2018, in relation to exposure for the sibling pair to preeclampsia with perinatal complications.

| Exposure to preeclampsia with perinatal complications\(^b\) | Adjusted HR (95% CI) |
|----------------------------------------------------------|----------------------|
|                                                          | Psychotic disorders (F20-29) | Anxiety disorders (F40-43, F93) | ASD (F84) |
| **Model 1\(^c\)**                                        |                       |                                   |           |
| None of the siblings in the pair was exposed (n=298 066)  | 1.00                  | 1.00                              | 1.00      |
| Exposure in the first, not in the second pregnancy/child (n=1464) | NA                    | 1.20 (0.89-1.62)                  | 0.90 (0.48-1.67) |
| Exposure in the second, not in the first pregnancy/child (n=597) | 1.42 (0.20-10.11)     | 1.18 (0.73-1.93)                  | 2.14 (1.11-4.13) |
| Both of the siblings in the pair were exposed (n=120)     | NA                    | 0.55 (0.08-3.89)                  | NA        |
| **Model 2\(^d\)**                                        |                       |                                   |           |
| None of the siblings in the pair was exposed (n=298 066)  | 1.00                  | 1.00                              | 1.00      |
| Exposure in the first, not in the second pregnancy/child (n=1464) | NA                    | 1.11 (0.83-1.50)                  | 0.82 (0.44-1.53) |
| Exposure in the second, not in the first pregnancy/child (n=597) | 1.38 (0.19-9.82)      | 1.17 (0.72-1.91)                  | 2.08 (1.08-4.01) |
| Both of the siblings in the pair were exposed (n=120)     | NA                    | 0.54 (0.08-3.81)                  | NA        |

NA, not applicable.

\(^a\) First sibling pairs were included, i.e. sibling 1&2.

\(^b\) Exclusion: Maternal in-hospital psychiatric disorder and maternal pre-gestational diabetes. Reference group was no preeclampsia (no ICD-10 O11 or O14) and no perinatal complications after excluding maternal chronic hypertension and gestational hypertension.

\(^c\) Model 1: The analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66, yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy (yes/no), maternal systemic inflammatory disease (yes/no), and intra-pregnancy interval.

\(^d\) Model 2: Adjusted for the variables in Model 1 and presence of the studied F diagnosis in the first child.
### eTable 9. Sibling Pair Analysis in All Mothers With a Singleton Sibling Pair (n = 427 591) Among the 1 012 723 Births (Born 1996-2014) for Any Psychiatric Disorder and Specific Neurodevelopmental Disorders in the Second Child

Adjusted Cox hazard ratios (HRs) and 95% CIs for the outcomes (columns) in the second child being (i) any psychiatric disorder (ICD-10 F diagnoses), and (ii) specific developmental disorders (F80-83) from birth until 2018, in relation to exposure for the sibling pair to preeclampsia.

| Exposure to preeclampsia (ICD-10: O11 or O14) | Adjusted HR (95% CI) |
|-----------------------------------------------|---------------------|
|                                               | Any F-diagnosis      | Specific developmental disorders (F80-83) |
| **Model 1**                                   |                     |                                     |
| None of the siblings in the pair was exposed  | 1.00                | 1.00                                |
| (n=415 393)                                   |                     |                                     |
| Exposure in the first, not in the second      | 1.17 (1.06-1.28)    | 1.13 (1.01-1.26)                    |
| pregnancy/child (n=6 636)                    |                     |                                     |
| Exposure in the second, not in the first      | 1.18 (1.05-1.33)    | 1.23 (1.07-1.40)                    |
| pregnancy/child (n=3 576)                    |                     |                                     |
| Both of the siblings in the pair were exposed | 1.16 (0.99-1.36)    | 1.26 (1.05-1.51)                    |
| (n=1 986)                                     |                     |                                     |
| **Model 2**                                   |                     |                                     |
| None of the siblings in the pair was exposed  | 1.00                | 1.00                                |
| (n=415 393)                                   |                     |                                     |
| Exposure in the first, not in the second      | 1.15 (1.04-1.26)    | 1.11 (1.00-1.23)                    |
| pregnancy/child (n=6 636)                    |                     |                                     |
| Exposure in the second, not in the first      | 1.16 (1.03-1.31)    | 1.20 (1.05-1.37)                    |
| pregnancy/child (n=3 576)                    |                     |                                     |
| Both of the siblings in the pair were exposed | 1.15 (0.98-1.35)    | 1.26 (1.05-1.51)                    |
| (n=1 986)                                     |                     |                                     |

* Exclusion: Births with maternal in-hospital psychiatric disorder, maternal pre-gestational diabetes and perinatal complications.

* Model 1: The analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66, yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy (yes/no), maternal systemic inflammatory disease (yes/no), and intra-pregnancy interval.

* Model 2: Adjusted for the variables in Model 1 and presence of the studied F diagnosis or psychotropic medication in the first child.
eTable 10. Hazard Ratios for Offspring Neurodevelopmental and Psychiatric Disorders in Relation to Maternal Preeclampsia (ICD-10 code O14) and Perinatal Complications

Maternal preeclampsia (PE) (ICD-10 code O14) and perinatal complications (SGA or delivery before 34 gestational weeks) (1 012 723 singleton live births 1996–2014 in Finland followed until 2018).

| PE stratified by SGA and gestational age\(a\) | Any F-diagnosis (n=93 281) | Psychotic disorders F20-F29 (n=2904) | Mood disorders F30-39, F92 (n=38 293) | Anxiety disorders F40-43, F93 (n=50 731) | Eating disorders F50 (n=6 029) | Sleeping disorders F51 (n=6 153) | Personality disorders F60-69 (n=3 195) | Intellectual disabilities F70-79 (n=8 014) | Specific developmental disorders F80-83 (n=55 326) | Autism spectrum disorders F84 (n=10 513) | ADHD\& conduct disorders F90-91 (n=30 115) | Other behavioral\& emotional disorders F98 (n=27 092) |
|-----------------------------------------------|----------------------------|-------------------------------------|--------------------------------------|--------------------------------------|----------------------------|-------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Crude model (Crude HR, 95% CI)                |                            |                                     |                                      |                                      |                            |                                     |                                        |                                        |                                        |                                        |                                        |                                        |
| No PE no perinatal complications              | 1.00                       | 1.00                                | 1.00                                 | 1.00                                 | 1.00                       | 1.00                                 | 1.00                                   | 1.00                                   | 1.00                                   | 1.00                                   | 1.00                                   | 1.00                                   |
| PE without perinatal complications            | 0.80 (0.73-0.88)           | 1.61 (1.36-1.89)                    | 0.88 (0.72-1.07)                     | 1.09 (0.95-1.25)                    | 1.03 (0.62-1.72)           | 0.99 (0.73-1.35)                    | 0.22 (0.06-0.88)                       | 0.89 (0.67-1.17)                       | 1.23 (1.12-1.34)                       | 1.29 (1.05-1.59)                       | 1.37 (1.21-1.55)                       | 1.18 (1.03-1.35)                       |
| PE with perinatal complications               | 1.74 (1.54-1.97)           | 0.36 (0.12-1.12)                    | 0.53 (0.32-0.89)                     | 1.38 (1.07-1.76)                    | 1.97 (0.94-4.14)           | 0.28 (0.09-0.87)                    | 0.88 (0.22-3.53)                       | 2.60 (1.90-3.56)                       | 2.81 (2.50-3.16)                       | 2.12 (1.54-2.91)                       | 2.03 (1.65-2.50)                       | 2.55 (2.13-3.05)                       |
| Perinatal complications only                  | 1.93 (1.88-1.98)           | 0.98 (0.24-3.90)                    | 1.42 (1.36-1.49)                     | 1.42 (1.37-1.49)                    | 1.47 (1.30-1.65)           | 1.32 (1.17-1.49)                    | 1.88 (1.62-2.17)                       | 4.29 (4.02-4.58)                       | 2.40 (2.32-2.47)                       | 1.87 (1.73-2.03)                       | 1.87 (1.79-1.97)                       | 1.91 (1.82-2.00)                       |
| Adjusted model\(^b\) (Adjusted HR, 95% CI)   |                            |                                     |                                      |                                      |                            |                                     |                                        |                                        |                                        |                                        |                                        |                                        |
| No PE no perinatal complications              | 1.00                       | 1.00                                | 1.00                                 | 1.00                                 | 1.00                       | 1.00                                 | 1.00                                   | 1.00                                   | 1.00                                   | 1.00                                   | 1.00                                   | 1.00                                   |
| PE without perinatal complications            | 1.09 (0.99-1.20)           | 1.44 (1.23-1.70)                    | 0.96 (0.79-1.16)                     | 1.02 (0.88-1.17)                    | 1.21 (0.73-2.01)           | 0.99 (0.72-1.35)                    | 0.41 (0.10-1.66)                       | 1.01 (0.77-1.33)                       | 1.14 (1.04-1.25)                       | 1.11 (0.90-1.37)                       | 1.14 (1.01-1.29)                       | 1.06 (0.93-1.21)                       |
| PE with perinatal complications               | 2.51 (2.22-2.84)           | 0.93 (0.30-2.89)                    | 0.62 (0.37-1.02)                     | 1.32 (1.03-1.69)                    | 2.23 (1.06-4.68)           | 0.28 (0.09-0.88)                    | 1.71 (0.43-6.84)                       | 3.07 (2.24-4.21)                       | 2.75 (2.45-3.10)                       | 1.87 (1.36-2.58)                       | 1.86 (1.51-2.29)                       | 2.41 (2.01-2.88)                       |
| Perinatal complications only                  | 1.78 (1.73-1.82)           | 2.66 (0.66-10.67)                   | 1.28 (1.22-1.34)                     | 1.28 (1.23-1.33)                    | 1.42 (1.26-1.60)           | 1.20 (1.06-1.35)                    | 1.64 (1.42-1.90)                       | 4.16 (3.90-4.45)                       | 2.28 (2.21-2.36)                       | 1.65 (1.52-1.78)                       | 1.62 (1.55-1.70)                       | 1.80 (1.71-1.89)                       |

\(^a\) Reference group was no PE, no SGA, and born ≥34 weeks of gestation after excluding maternal chronic hypertension and gestational hypertension.

\(^b\) The analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66, yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy, and maternal systemic inflammatory disease (yes/no).
**eTable 11. Hazard Ratios for Offspring Psychotropic Medications in Relation to Maternal Preeclampsia (ICD-10 code O14) and Perinatal Complications**

Maternal preeclampsia (PE) (ICD-10 code O14) and perinatal complications (SGA or delivery before 34 gestational weeks) (1 012 723 singleton live births 1996–2014 in Finland followed up until 2018).

| PE stratified by SGA and gestational age<sup>a</sup> | Any medication (N=50 131) | Anxiolytics, hypnotics and sedatives (N=33 471) | Antidepressants (N=11 509) | Stimulants (N=14 547) |
|---|---|---|---|---|
| **Crude model (crude HR, 95% CI)** | | | | |
| No PE no perinatal complications | 1.00 | 1.00 | 1.00 | 1.00 |
| PE without perinatal complications | 1.19 (1.03-1.36) | 1.26 (1.06-1.50) | 0.11 (0.04-0.33) | 1.09 (0.88-1.35) |
| PE with perinatal complications | 1.58 (1.24-2.01) | 1.87 (1.41-2.48) | 0.15 (0.02-1.04) | 1.10 (0.72-1.69) |
| Perinatal complications only | 1.65 (1.58-1.71) | 1.64 (1.56-1.72) | 1.39 (1.28-1.52) | 1.94 (1.82-2.08) |
| **Adjusted model<sup>b</sup> (adjusted HR, 95% CI)** | | | | |
| No PE no perinatal complications | 1.00 | 1.00 | 1.00 | 1.00 |
| PE without perinatal complications | 1.18 (1.02-1.35) | 1.09 (0.91-1.29) | 0.67 (0.22-2.07) | 1.34 (1.08-1.67) |
| PE with perinatal complications | 1.65 (1.30-2.10) | 1.66 (1.26-2.20) | 0.99 (0.14-7.05) | 1.54 (1.00-2.36) |
| Perinatal complications only | 1.53 (1.47-1.59) | 1.54 (1.47-1.62) | 1.26 (1.15-1.37) | 1.68 (1.57-1.80) |

Abbreviations: HR, hazard ratios; PE, pre-eclampsia; SGA, small for gestational age. Preeclampsia was ICD-10 code: O14. Perinatal complications referred to SGA or delivery before 34 gestational weeks.

Exclusion: Maternal in-hospital psychiatric disorder and maternal pre-gestation diabetes.

<sup>a</sup>Reference group was no PE no SGA no born <34 weeks of gestation after excluding maternal chronic hypertension and gestational hypertension.

<sup>b</sup>The analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66) (yes/no), maternal gestational diabetes (yes/no), maternal out-patient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy, and maternal systemic inflammatory disease (yes/no).
Table 12. Hazard Ratios for Offspring Neurodevelopmental and Psychiatric Disorders in Relation to Maternal Preeclampsia and Perinatal Complications

Maternal preeclampsia (PE) (ICD-10 codes O11 or O14) and perinatal complications (SGA or delivery before 34 gestational weeks) (1 045 190 singleton live births 1996–2014 in Finland followed until 2018) not excluding births with in-hospital psychiatric disorder and maternal pre-gestational diabetes with insulin treatment.

| PE stratified by SGA and gestational age<sup>a</sup> | Any F-diagnosis (n=100 000) | Psychotic disorders (n=3 203) | Mood disorders (n=41 656) | Anxiety disorders (n=40 43, n=93 (n=54 969) | Eating disorders (n=6 360) | Sleeping disorders (n=6 586) | Personality disorders (n=60 69 (n=3 453) | Intellectual disabilities (n=70 79 (n=8 530) | Specific developmental disorders (n=80 83 (n=58 859) | Autism spectrum disorders (n=11 373) | ADHD and conduct disorders (n=32 825) | Other behavioral and emotional disorders (n=28 917) |
|-------------------------------------------------|--------------------------|-------------------------------|--------------------------|-----------------------------------------------|--------------------------|---------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| **Crude model (Crude HR, 95% CI)**               |                          |                               |                          |                                               |                          |                           |                                               |                                               |                                               |                                               |                                               |                                               |
| No PE no perinatal complications                | 1.00                     | 1.00                          | 1.00                     | 1.00                                          | 1.00                     | 1.00                      | 1.00                                          | 1.00                                          | 1.00                                          | 1.00                                          | 1.00                                          | 1.00                                          |
| PE without perinatal complications              | 1.16 (1.11–1.21)         | 0.85 (0.21–3.41)              | 1.15 (1.07–1.23)         | 1.20 (1.13–1.27)                              | 1.17 (0.98–1.39)         | 1.23 (1.05–1.44)           | 0.99 (0.77–1.28)                               | 1.28 (1.12–1.47)                              | 1.30 (1.24–1.37)                              | 1.45 (1.30–1.62)                              | 1.90 (1.81–1.98)                              | 1.94 (1.85–2.03)                              |
| PE with perinatal complications                  | 2.06 (1.93–2.21)         | 1.63 (1.39–1.90)              | 1.21 (1.06–1.39)         | 1.36 (1.21–1.52)                              | 1.44 (1.04–1.99)         | 0.85 (0.57–1.25)           | 1.93 (1.31–2.83)                               | 3.37 (2.81–4.04)                              | 2.78 (2.58–2.99)                              | 1.96 (1.60–2.39)                              | 1.35 (1.26–1.44)                              | 1.23 (1.14–1.33)                              |
| Perinatal complications only                     | 1.92 (1.87–1.97)         | 0.41 (0.15–1.09)              | 1.45 (1.38–1.52)         | 1.45 (1.39–1.51)                              | 1.51 (1.34–1.70)         | 1.36 (1.21–1.53)           | 1.96 (1.69–2.26)                               | 4.35 (4.08–4.65)                              | 2.39 (2.32–2.47)                              | 1.88 (1.74–2.04)                              | 1.95 (1.73–2.20)                              | 2.11 (1.87–2.38)                              |
| **Adjusted model<sup>b</sup> (Adjusted HR, 95% CI)** |                         |                               |                          |                                               |                          |                           |                                               |                                               |                                               |                                               |                                               |                                               |
| No PE no perinatal complications                | 1.00                     | 1.00                          | 1.00                     | 1.00                                          | 1.00                     | 1.00                      | 1.00                                          | 1.00                                          | 1.00                                          | 1.00                                          | 1.00                                          | 1.00                                          |
| PE without perinatal complications              | 1.17 (1.12–1.22)         | 2.32 (0.58–9.33)              | 1.11 (1.03–1.19)         | 1.12 (1.05–1.18)                              | 1.12 (0.94–1.33)         | 1.15 (0.99–1.35)           | 0.99 (0.77–1.29)                               | 1.26 (1.10–1.45)                              | 1.23 (1.17–1.30)                              | 1.23 (1.10–1.38)                              | 1.22 (1.14–1.30)                              | 1.12 (1.04–1.21)                              |
| PE with perinatal complications                  | 2.08 (1.94–2.22)         | 1.42 (1.21–1.66)              | 1.21 (1.05–1.39)         | 1.29 (1.15–1.44)                              | 1.31 (0.94–1.82)         | 0.79 (0.53–1.17)           | 1.86 (1.26–2.74)                               | 3.40 (2.84–4.08)                              | 2.78 (2.58–2.99)                              | 1.66 (1.36–2.03)                              | 1.90 (1.68–2.14)                              | 2.01 (1.78–2.27)                              |
| Perinatal complications only                     | 1.75 (1.71–1.80)         | 1.01 (0.38–2.69)              | 1.27 (1.21–1.33)         | 1.28 (1.22–1.33)                              | 1.47 (1.31–1.66)         | 1.22 (1.09–1.38)           | 1.68 (1.46–1.94)                               | 4.20 (3.93–4.48)                              | 2.24 (2.17–2.31)                              | 1.65 (1.52–1.78)                              | 1.60 (1.53–1.68)                              | 1.80 (1.72–1.90)                              |

Preeclampsia was ICD-10 codes: O11 or O14. Perinatal complications referred to SGA or delivery before 34 gestational weeks.

<sup>a</sup>Reference group was no PE, no SGA, and born ≥34 weeks of gestation after excluding maternal chronic hypertension and gestational hypertension.

<sup>b</sup>The analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66; yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy, and maternal systemic inflammatory disease (yes/no), maternal in-hospital psychiatric disorder and maternal pre-gestational diabetes with insulin treatment.

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### eTable 13. Hazard Ratios for Offspring Neurodevelopmental and Psychiatric Disorders in Relation to Gestational Hypertension and Perinatal Complications

Gestational hypertension (ICD-10 code O13) and perinatal complications (SGA or delivery before 34 gestational weeks)

| GH stratified by SGA and gestational age | Any F- | Psychotic | Mood |
|----------------------------------------|-------|----------|------|
|                                        | diagnosis | disorders | disorders |
|                                        | (n=99 368) | F20-F29 | F30-F92 |
|                                        | (n=3 195) | (n=41 410) | (n=54 636) |
| Crude model (Crude HR, 95% CI) | 1.00 | 1.00 | 1.00 |
| No GH, no perinatal complications | 0.80 | 0.54 | 0.79 |
|                                      | (0.74-0.86) | (0.27-1.09) | (0.68-0.92) |
| No GH, no perinatal complications | 1.01 | 0.64 | 0.94 |
|                                      | (0.90-1.12) | (0.39-1.05) | (0.73-1.21) |
| No GH, no perinatal complications | 0.39 | 1.16 | 1.23 |
|                                      | (0.17-0.87) | (0.95-1.40) | (1.15-1.32) |
| Perinatal complications only | 1.50 | 1.64 | 1.20 |
|                                      | (1.25-1.79) | (0.41-6.58) | (0.77-1.86) |
| Perinatal complications only | 1.08 | 3.13 | 1.56 |
|                                      | (0.75-1.56) | (1.94-5.04) | (0.39-6.23) |
| Perinatal complications only | 2.77 | 2.15 | 1.37 |
|                                      | (1.81-4.25) | (1.78-2.59) | (0.79-2.35) |
| Adjusted model (Adjusted HR, 95% CI) | 1.91 | 1.56 | 1.44 |
| No GH, no perinatal complications | 1.50 | 1.45 | 1.45 |
|                                      | (1.39-1.51) | (1.39-1.51) | (1.38-1.51) |
| No GH, no perinatal complications | 1.45 | 1.33 | 2.39 |
|                                      | (1.33-1.68) | (1.19-1.50) | (2.19-2.46) |
| No GH, no perinatal complications | 4.33 | 1.88 | 4.45 |
|                                      | (4.07-4.62) | (1.71-2.27) | (4.17-4.54) |

GH, gestational hypertension referred to ICD-10 code: O13. Perinatal complications referred to SGA or delivery before 34 gestational weeks. NA, not applicable.

Exclusion: Maternal preeclampsia (ICD-10 codes: O11 or O14).

1 045 447 singleton live births 1996–2014 in Finland followed until 2018 not excluding births with in-hospital psychiatric disorder and maternal pre-gestational diabetes with insulin treatment

Reference group was no GH, no SGA, and born ≥34 weeks of gestation.

The analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66, yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy, maternal systemic inflammatory disease (yes/no), maternal in-hospital psychiatric disorder (yes/no), and maternal pre-gestational diabetes (yes/no).
**eTable 14. Mediating Effect of Perinatal Complications in the Association Between Maternal Preeclampsia and Any Offspring ICD-10 F Diagnosis**

Hazard ratio (HR) and 95 % CI from mediation models.

| Maternal preeclampsia                      | HR^a | 95% CI        |
|-------------------------------------------|------|---------------|
| Total association                         | 1.05 | 1.04-1.07     |
| Direct association                        | 1.01 | 1.00-1.03     |
| Mediating effect by perinatal complications| 1.04 | 1.02-1.07     |

Preeclampsia referred to ICD-10 code: O11 or O14. Perinatal complications referred to SGA or delivery before 34 gestational weeks. Exclusion: Maternal in-hospital psychiatric disorder and maternal pre-gestational diabetes.

^aThe analyses were adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66, yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy, and maternal systemic inflammatory disease (yes/no).
Reference group was no preeclampsia, no SGA, and born after 33 gestational weeks after excluding maternal chronic hypertension and gestational hypertension. The analyses were adjusted for offspring birth year, sex, and the maternal factors age at delivery, country of birth (Finland or not), married at birth (yes/no), occupation (upper white collar worker, lower white collar worker, blue collar worker, and other status), smoking (yes/no), parity (0 or ≥1), obesity (ICD-10: E65-E66, yes/no), gestational diabetes (yes/no), outpatient psychiatric disorders (yes/no), N05/N06 purchase during pregnancy (yes/no), and systemic inflammatory disease (yes/no). All children were followed up until December 2018.
**eFigure 2.** Mediating Effect of Perinatal Complications in the Association Between Maternal Preeclampsia and Any Offspring ICD-10 F Diagnosis

Regression coefficient (SE) derived from the mediation model. Corresponds to eTable 14.

Preeclampsia referred to ICD-10 code: O11 or O14. Perinatal complications referred to SGA or delivery before 34 gestational weeks. Exclusion: Maternal in-hospital psychiatric disorder and maternal pre-gestational diabetes. This model was adjusted for offspring birth year, sex, maternal age at delivery, mother’s country of birth (Finland or not), mother married at birth (yes/no), maternal occupation (SES, upper white collar worker, lower white collar worker, blue collar worker, and other status), maternal smoking (yes/no), parity (0 or ≥1), maternal obesity (ICD-10: E65-E66, yes/no), maternal gestational diabetes (yes/no), maternal outpatient psychiatric disorders (yes/no), maternal N05/N06 purchase during pregnancy, and maternal systemic inflammatory disease (yes/no).