**Additional file 8: Results from sensitivity analysis with a more narrow definition of oral contraceptive discontinuation during pregnancy.**

Characteristics of pregnancies by proxies of pregnancy intention, within-pregnancy discontinuers redefined as women who filled a prescription for oral contraceptives less than one cycle before pregnancya.

|  |  |  |
| --- | --- | --- |
|  |  | Timing of oral contraceptive discontinuation |
|  | Fertility treatment(n=19 449) | Early (n=77 735) | Late (n=42 621) | Within-pregnancy discontinuation, sensitivity(n=7251) |
|  | Folate before (n:9912) | Folate during (n:6101) | No folate (n:3436) | Folate before(n:27416) | Folate during (n:33513) | No folate (n:16806) | Folate before (n:14008) | Folate during (n:19127) | No folate (n:9486) | Folate before (n:1062) | Folate during (n:3835) | No folate (n:2354) |
| Maternal age | 32.1 (4.8) | 31.1 (5.0) | 31.9 (5.2) | 29.7 (4.2) | 28.4 (4.7) | 28.6 (5.2) | 29.2 (4.1) | 27.9 (4.5) | 28.2 (5.0) | 28.1 (5.3) | 26.4 (5.3) | 26.5 (6.0) |
| Married/cohabiting | 95.9 | 95.4 |  93.6 | 97.3 | 93.6 | 91.4 | 97.4 | 94.4 | 92.3 | 92.2 | 87.2 | 81.9 |
| Employed | 79.9 | 76.2 | 48.7 | 82.3 | 77.3 | 54.7 | 82.8 | 78.6 | 58.6 | 72.6 | 70.3 | 54.4 |
| Nulliparous | 61.3 | 56.3 | 52.4 | 55.8 | 57.1 | 50.6 | 55.9 | 60.7 | 53.7 | 56.0 | 63.3 | 54.6 |
| Previous pregnancy loss | 29.5 | 26.4 | 23.5 | 24.6 | 17.7 | 16.6 | 12.2 | 10.2 | 9.7 | 15.0 | 11.8 | 11.8 |
| Obstetric comorbidity indexb*Components of the index* Asthma Diabetes, pre-gestational Hypertension, chronic Hypertension, gestational Kidney disease Multiple gestation Preeclampsia, mild Preeclampsia, severe Previous caesarean section | 0.78 (1.2)5.81.20.92.30.65.92.92.05.4 | 0.72 (1.2)5.31.41.01.90.55.23.02.35.8 | 0.81 (1.2)3.81.30.94.00.65.63.22.25.4 | 0.41 (0.9)5.50.70.62.10.71.31.91.35.6 | 0.37 (0.8)5.60.60.51.90.71.22.11.15.2 | 0.38 (0.9)4.10.60.52.40.51.42.11.25.3 | 0.37 (0.8)5.10.80.52.00.71.42.01.25.1 | 0.34 (0.8)5.80.60.42.00.61.12.31.34.4 | 0.37 (0.9)4.40.80.42.60.61.41.81.64.4 | 0.40 (1.0)5.70.70.51.80.71.91.71.93.9 | 0.35 (0.9)6.00.70.41.60.61.12.31.83.4 | 0.38 (0.9)5.41.40.41.70.61.02.32.13.4 |
| Rheumatoid arthritis | 0.9 | 0.5 | 0.3 | 0.6 | 0.4 | 0.3 | 0.7 | 0.3 | 0.3 | c | 0.3 | c |
| Smoking in early pregnancy | 3.6 | 7.7 | 6.9 | 4.0 | 9.3 | 12.2 | 4.0 | 9.1 | 11.4 | 8.3 | 14.3 | 17.2 |
| Smoking at the end of pregnancy | 2.1 | 4.6 | 4.4 | 2.1 | 5.1 | 7.7 | 2.1 | 4.9 | 7.1 | 4.9 | 7.1 | 9.7 |
| Weight gain in pregnancy | 13.8 (7.7) | 13.9 (7.7) | 13.7 (7.9) | 14.2 (7.4) | 14.9 (9.3) | 14.3 (8.4) | 14.4 (7.1) | 14.9 (7.4) | 14.3 (7.7) | 15.1 (9.1) | 15.2 (8.0) | 14.8 (9.3) |

aFigures shown are percent of non-missing values with the exception of maternal age, calendar year, obstetric comorbidity index, and weight gain in pregnancy, presented as mean (standard deviation). Missing values ranged from 0% (maternal age, calendar year, parity) to 13.0% to 26.0% (maternal employment, with highest proportion of missing for women with no folic acid use). Women could choose not to have smoking and weight reported to the MBRN. For smoking, 7.9% to 24.0% chose not to report. For weight, 73.1% to 81.9% chose not to report.

bAdapted from Bateman et al. (20), using the variables available in MBRN (age, asthma, pre-gestational diabetes, chronic hypertension, kidney disease, previous caesarean section, multiple gestation, severe preeclampsia, mild preeclampsia, gestational hypertension) and weighting the variables as done by Bateman et al.

cPercentage not displayed for reasons of confidentiality as there were less than five women in each cell.

**Proportion of pregnancies with filled prescriptions for analgesics by peri-pregnancy period and proxies of pregnancy intention, sensitivity analysis redefining within-pregnancy discontinuers as pregnancies to women who filled a prescription for oral contraceptives less than one cycle before pregnancy.** T: Trimester.

**Proportion of pregnancies with filled prescriptions for antibiotics by peri-pregnancy period and proxies of pregnancy intention, sensitivity analysis redefining within-pregnancy discontinuers as pregnancies to women who filled a prescription for oral contraceptives less than one cycle before pregnancy.** T: Trimester.