# Supplementary data to: Pregnancy outcomes in women wiht pre-existing thyroid diseases: a french cohort study

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**SUPPLEMENTARY DATA.**

## PREGNANCY OUTCOMES IN WOMEN WITH PRE-EXISTING THYROID DISEASES: A FRENCH COHORT STUDY

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| Supplementary Table 1. | Outcomes for women with and without pre-pregnancy thyroid diseases. |
| Supplementary Table 2. | Comparison of outcomes for women without pre-pregnancy thyroid diseases and with pre-pregnancy hypothyroidism (hyperthyroidism or unspecified thyroid diseases excluded). |

Table 1: Outcomes for women with and without pre-pregnancy thyroid diseases.

| Fertility and pregnancy complications | N | No pre-pregnancy thyroid diseases (N=16122) | Pre-pregnancy thyroid diseases (N=273) | P-value |
|---|---|---|---|---|
| **Infertility treatment** | 16230 | 7.0 (1124) | 11.7 (31) | 0.004 |
| **Gestational diabetes** | 15826 | 7.5 (1165) | 11.9 (32) | 0.006 |
| **Gestational age at birth (amenorrhea weeks)** | 16302 | 39.6 ± 1.4 | 39.7 ± 1.3 | 0.73 |
| **Hospitalization during pregnancy** | 16301 | 15.3 (2455) | 18.8 (51) | 0.12 |
| **Induction of labor** | 16277 | | | 0.32 |
| Spontaneous labor | | 72.1 (11535) | 68.8 (187) | |
| Induction | | 19.3 (3084) | 20.2 (55) | |
| Pre-labor caesarean section | | 8.7 (1386) | 11.0 (30) | |
| **Mode of delivery** | 16154 | | | 0.45 |
| Vaginal delivery | | 69.7 (11073) | 66.8 (181) | |
| Assisted delivery* | | 12.9 (2041) | 12.9 (35) | |
| Caesarean section | | 17.4 (2769) | 20.3 (55) | |
| **Premature rupture of membranes** | 16067 | 9.8 (1553) | 12.3 (33) | 0.18 |
| **Birth weight (g)** | 16198 | 3334.8 ± 478.4 | 3376 ± 460.3 | 0.16 |
| **Birth length (cm)** | 14967 | 49.6 ± 2.1 | 49.9 ± 2.0 | 0.05 |
| **Head circumference (cm)** | 14875 | 34.4 ± 1.4 | 34.4 ± 1.4 | 0.96 |
| **Birth weight categories**** | 15926 | | | 0.68 |
| SGA | | 9.3 (1459) | 7.8 (21) | |
| AGA | | 80.8 (12646) | 81.9 (221) | |
| LGA | | 9.9 (1551) | 10.4 (28) | |

Data are n (%) or mean ± SD.

* Assisted delivery: forceps, spatulas, vacuum

**A customized standard to assess fetal growth: SGA, small for gestational age (< $10^{th}$ percentile); AGA, appropriate for gestational age ($10^{th}$ to $90^{th}$ percentile); LGA, large gestational weight (>$90^{th}$ percentile

Table 2: Comparison of outcomes for women without pre-pregnancy thyroid diseases and with pre-pregnancy hypothyroidism (hyperthyroidism or unspecified thyroid diseases excluded)

| **Fertility and pregnancy complications** | **N** | **No Pre-pregnancy thyroid diseases (N=16122)** | **Pre-pregnancy hypothyroidism (N=196)** | **P-value** | **Adjusted model 2** |
|---|---|---|---|---|---|
| **Infertility treatment** | 16155 | 7.0 (1124) | 12.0 (23) | **0.007** | 1.55 [0.99-2.43] |
| **Gestational diabetes** | 15752 | 7.5 (1165) | 12.4 (24) | **0.010** | 1.24 [0.78-1.95] |
| **Gestational age at birth (amenorrhea weeks)** | 16225 | 39.6 ± 1.4 | 39.6 ± 1.3 | 0.87 | -0.04 [-0.24 ;0.16] |
| **Hospitalization during pregnancy** | 16225 | 15.3 (2455) | 16.3 (32) | 0.70 | 1.10 [0.75-1.61] |
| **Induction of labor** | 16201 | | | 0.31 | |
| Spontaneous labor | | 72.1 (11535) | 69.4 (136) | | ref |
| Induction | | 19.3 (3084) | 18.9 (37) | | 0.90 [0.62-1.30] |
| Prelabor caesarean section | | 8.7 (1386) | 11.7 (23) | | 1.11 [0.70-1.75] |
| **Mode of delivery** | 16078 | | | 0.21 | |
| Vaginal delivery | | 69.7 (11073) | 64.6 (126) | | ref |
| Assisted delivery* | | 12.9 (2041) | 13.3 (26) | | 1.11 [0.71-1.72] |
| Caesarean section | | 17.4 (2769) | 22.1 (43) | | 1.12 [0.78-1.60] |
| **Premature rupture of membranes** | 15991 | 9.8 (1553) | 14.5 (28) | **0.030** | 1.49 [0.99-2.27] |
| **Birth weight (g)** | 16121 | 3334.8 ± 478.4 | 3366.8 ± 467.8 | 0.35 | -0.20 [-55.9;55.5] |
| **Birth length (cm)** | 14897 | 49.6 ± 2.1 | 49.8 ± 2.1 | 0.34 | 0.02 [-0.25;0.29] |
| **Head circumference (cm)** | 14806 | 34.4 ± 1.4 | 34.3 ± 1.4 | 0.34 | **-0.20 [-0.39;-0.01]** |
| **Birth weight categories**** | 15851 | | | 0.86 | |
| SGA | | 9.3 (1459) | 8.2 (16) | | NA |
| AGA | | 80.8 (12646) | 81.5 (159) | | |
| LGA | | 9.9 (1551) | 10.3 (20) | | |

Model 2: adjusted on maternal education level, maternal age, parity, smoking during pregnancy, BMI and infant sex and gestational age for head circumference, birth weight and length.

* Assited delivery: forceps, spatulas, vacuum

** A customized standard to assess fetal growth: SGA, small for gestational age (< $10^{th}$ percentile); AGA, appropriate for gestational age ($10^{th}$ to $90^{th}$ percentile); LGA, large gestational weight (>$90^{th}$ percentile).