Supplementary Material
Table 1. Duration of use of hormonal contraceptives at beginning of attempted pregnancy and fecundability, Snart Gravid, Snart Foraeldre, and PRESTO studies (N=17,954), 2007-2019.

| Method                  | PRESTO Study (N = 8,751) | Snart Gravid and Snart Foraeldre Studies (N = 9,203) |
|-------------------------|--------------------------|-----------------------------------------------------|
|                         | No. of Cycles            | No. of Pregnancies | FR (95% CI)          | No. of Cycles | No. of Pregnancies | FR (95% CI)   |
| OC, years               |                          |                     |                       |              |                     |               |
| <2                      | 6,903                    | 1,030               | Reference             | 2,338        | 338                 | Reference     |
| 2-3                     | 5,574                    | 861                 | 1.00 (0.88-1.14)      | 4,626        | 706                 | 1.06 (0.93-1.21) |
| 4-5                     | 4,425                    | 698                 | 1.06 (0.92-1.23)      | 4,871        | 824                 | 1.20 (1.05-1.36) |
| 6-7                     | 3,619                    | 531                 | 1.07 (0.91-1.25)      | 4,750        | 817                 | 1.15 (1.00-1.31) |
| 8-9                     | 2,798                    | 417                 | 0.95 (0.84-1.07)      | 4,800        | 812                 | 1.18 (1.04-1.35) |
| 10-11                   | 2,509                    | 351                 | 1.01 (0.88-1.17)      | 4,273        | 781                 | 1.23 (1.09-1.40) |
| ≥12                     | 4,142                    | 646                 | 1.01 (0.88-1.16)      | 6,231        | 1,011               | 1.17 (1.02-1.34) |
| Hormonal IUD, years     |                          |                     |                       |              |                     |               |
| <2                      | 3,144                    | 660                 | Reference             |              |                     |               |
| 2-3                     | 1,878                    | 289                 | 0.83 (0.69-1.00)      |              |                     |               |
| 4-5                     | 1,447                    | 186                 | 0.80 (0.56-1.14)      |              |                     |               |
| ≥6                      | 700                      | 114                 | 0.98 (0.75-1.27)      |              |                     |               |
| Ring, years             |                          |                     |                       |              |                     |               |
| <2                      | 6,959                    | 1,078               | Reference             |              |                     |               |
| 2-3                     | 1,394                    | 203                 | 1.00 (0.80-1.25)      |              |                     |               |
| 4-5                     | 726                      | 112                 | 0.86 (0.65-1.13)      |              |                     |               |
| ≥6                      | 368                      | 60                  | 1.06 (0.61-1.87)      |              |                     |               |
| ≥8                      | 413                      | 72                  | 1.02 (0.68-1.52)      |              |                     |               |
| Injectable, years       |                          |                     |                       |              |                     |               |
| <2                      | 1,480                    | 187                 | Reference             |              |                     |               |
| 2-3                     | 1,120                    | 168                 | 0.98 (0.76-1.26)      |              |                     |               |
| 4-5                     | 561                      | 55                  | 1.03 (0.80-1.33)      |              |                     |               |
| 6-7                     | 226                      | 57                  | 1.17 (0.77-1.78)      |              |                     |               |
| ≥8                      | 183                      | 36                  | 1.00 (0.77-1.30)      |              |                     |               |
| Patch, years            |                          |                     |                       |              |                     |               |
| <2                      | 870                      | 142                 | Reference             |              |                     |               |
| 2-3                     | 536                      | 113                 | 1.01 (0.97-1.06)      |              |                     |               |
| 4-5                     | 199                      | 33                  | 0.97 (0.86-1.08)      |              |                     |               |
| ≥6                      | 133                      | 18                  | 0.89 (0.75-1.04)      |              |                     |               |
| Implant, years          |                          |                     |                       |              |                     |               |
| <2                      | 828                      | 107                 | Reference             |              |                     |               |
| ≥2                      | 1017                     | 142                 | 0.97 (0.87-1.09)      |              |                     |               |

Abbreviations: FR = fecundability ratio, CI = confidence interval, OC = oral contraceptive, IUD = intrauterine device
Note 1: In SF and SG, this analysis was only conducted for OCs due to limited data on duration of use.
a Models adjusted for age at baseline, education, race, income, body mass index, intercourse frequency, current smoking, doing something to improve chances of conception, diabetes, total duration of hormonal contraception use (PRESTO only), menstrual cycle regularity, menstrual cycle length, parity, history of unplanned pregnancy, history of induced abortion, history of infertility, endometriosis, uterine leiomyoma, and polycystic ovarian syndrome.
Table 2. Last method of contraception and fecundability among women who discontinued hormonal contraceptives within one month of attempting to conceive, Snart Gravid, Snart Foraeldre, and PRESTO studies (N=14,638), 2007-2019.

| Method         | No. of Cycles | No. of Pregnancies | Fecundability Ratio (95% CI) |
|----------------|---------------|--------------------|-----------------------------|
|                |               |                    | Model A<sup>a</sup> | Model B<sup>b</sup> | Model C<sup>c</sup> |
| Barrier        | 12,147        | 2,074              | Reference                  | Reference          | Reference          |
| OC             | 24,204        | 3,690              | 0.90 (0.85-0.94)           | 0.88 (0.83-0.93)   | 0.91 (0.86-0.96)   |
| Hormonal IUD   | 4,210         | 892                | 1.16 (1.08-1.25)           | 1.16 (1.08-1.25)   | 1.10 (1.02-1.19)   |
| Copper IUD     | 2,543         | 450                | 1.00 (0.91-1.10)           | 0.99 (0.90-1.08)   | 0.95 (0.86-1.04)   |
| Ring           | 1,823         | 262                | 0.88 (0.78-0.99)           | 0.86 (0.76-0.98)   | 0.89 (0.78-1.01)   |
| Implant        | 632           | 106                | 0.94 (0.78-1.14)           | 1.05 (0.87-1.27)   | 1.03 (0.85-1.25)   |
| Patch          | 274           | 42                 | 0.87 (0.65-1.15)           | 0.89 (0.67-1.19)   | 0.95 (0.71-1.26)   |
| Injectable      | 407           | 37                 | 0.57 (0.42-0.79)           | 0.62 (0.45-0.85)   | 0.62 (0.45-0.86)   |
| Natural<sup>d</sup> | 8,262   | 1,222              | 0.90 (0.84-0.96)           | 0.91 (0.85-0.98)   | 0.90 (0.84-0.97)   |

**IUDs**

| Method       | No. of Cycles | No. of Pregnancies | Fecundability Ratio (95% CI) |
|--------------|---------------|--------------------|-----------------------------|
| Copper       | 2,543         | 450                | Reference                  | Reference          | Reference          |
| Hormonal     | 4,210         | 892                | 1.17 (1.05-1.29)           | 1.17 (1.05-1.31)   | 1.15 (1.02-1.30)   |

Abbreviations: FR = fecundability ratio, CI = confidence interval, OC = oral contraceptive, IUD = intrauterine device

<sup>a</sup> Adjusted only for study (SF, SG, PRESTO).

<sup>b</sup> Models adjusted for study, age at baseline, education, race, income, body mass index, intercourse frequency, current smoking, doing something to improve chances of conception, diabetes, and duration of hormonal contraception use.

<sup>c</sup> Models additionally adjusted for menstrual cycle regularity, menstrual cycle length, parity, history of unplanned pregnancy, history of induced abortion, history of infertility, endometriosis, uterine leiomyoma, and polycystic ovarian syndrome.

<sup>d</sup> Natural methods include withdrawal, calendar methods, monitoring cervical mucus or basal body temperature, and avoiding sex during fertile window.