Table 2: Repeat gynaecological surgical procedure in the endometriosis and the unexposed cohorts (reference category)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Endometriosis** | **Unexposed cohort A Negative laparoscopy** | | **Unexposed cohort B Laparoscopic sterilization** | | **Unexposed cohort C General population#** | |
|  | **n (%) = 17,834** | **n (%) = 83,303** | **Adjusted IRR\* (95% CI)**  **Adjusted HR\*\* (95% CI)**  **p value** | **n (%) = 162,966** | **Adjusted IRR\* (95% CI)**  **Adjusted HR\*\* (95% CI)**  **p value** | **n (%) = 17,834** | **Adjusted IRR\* (95% CI)**  **Adjusted HR\*\* (95% CI)**  **p value** |
| **Repeat surgery** | 11,052 (62) | 42,136 (50.6) | <0.001 | 58,704 (36) | <0.001 | 2,907 (16.3) | <0.001 |
| **No. of repeat surgical procedures** | | | | | | | |
| 0 | 6,782 (38) | 41,167 (49.4) | 1.67\* (1.65, 1.69)  <0.001 | 104,262 (64.0) | 2.74\* (2.71, 2.78)  <0.001 | 2,279 (83.7) | 3.03 (2.95, 3.13)\*  <0.001 |
| 1 | 2,935 (16.5) | 15,876 (19.1) | 24,473 (15.0) | 1,718 (9.6) |
| 2 | 3,296 (18.5) | 11,173 (13.4) | 16,711 (10.3) | 741 (4.2) |
| 3 | 1,864 (10.5) | 6,139 (7.4) | 8,201 (5.0) | 221 (1.2) |
| ≥ 4 | 2,956 (16.6) | 8,944 (10.7) | 9,319 (5.7) | 227 (1.3) |
| **Time to repeat surgery** Median (IQR) years | 1.8 (0.8, 4.6) | 4.2 (1.5, 8.5) | 1.69\*\* (1.65, 1.73)  <0.001 | 7.6 (3.8, 12.6) | 3.30\*\* (3.23, 3.37)  <0.001 | 6.6 (3, 11.3) | 5.95\*\* (5.71, 6.20)  <0.001 |
| **Time to hysterectomy** Median (IQR) years | 2.0 (0.7, 6.3) | 7.4 (2.4, 12.4) | 3.14\*\* (3.02, 3.26)  <0.001 | 8.8 (5.1, 13.2) | 4.30\*\* (4.15, 4.50)  <0.001 | 8.9 (5.0, 13.1) | 11.74\*\* (10.6, 13.01)  <0.001 |

Each unexposed cohort is the reference group for endometriosis cohort

\*Adjusted IRR (Incident rate ratio) and \*\* Adjusted HR (Hazard ratio): adjusted for age, socio-economic status and year of index surgery

#General population cohort was matched by the year of birth and date of entrance in the study (only univariate analysis was conducted)