**Supplementary material for:**

**Length of Hospital stay after delivery among Danish women with Congenital Heart Disease: A register-based cohort study**

 

**Figure S1.** Simplified Directed Acyclic Graph (DAG) highlighting variables of importance in the analysis of the association between maternal congenital heart disease and length of hospital stay.

**Table S1.** Association between congenital heart disease and length of hospital stay after delivery given by relative ratio (RR) and 95% confidence interval (95% CI). Length of hospital stay is truncated at 30 days. Denmark, 1997-2014.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Number of days of admission after delivery | Unadjusted | Adjusted# |
|  | N\* | Mean (SD) | Median (IQR) | RR | 95 % CI | p-value | RR | 95 % CI | p-value |
| **Maternal congenital** **heart disease** |  |  |  |  |  | <0.001 |  |  | <0.001 |
| No  | 935,959 | 3.5 (3.3)  | 3 (1-4) | 1 (ref) | - |  | 1 (ref) | - |  |
| Simple | 2,242 | 3.8 (3.7)  | 3 (2-5) | 1.09 | 1.05-1.14 |  | 1.11 | 1.07-1.16 |  |
| Moderate  | 1,093 | 4.0 (3.6)  | 3 (2-5) | 1.14 | 1.07-1.21 |  | 1.15 | 1.08-1.22 |  |
| Complex  | 384 | 4.8 (5.3)  | 4 (2-5) | 1.37 | 1.20-1.56 |  | 1.39 | 1.22-1.59 |  |

\*number of births in the unadjusted analysis

#adjusted for maternal age, year of delivery, parity, ethnicity, and educational level

**Table S2.** Association between congenital heart disease and length of hospital stay after delivery given by relative ratio (RR) and 95% confidence interval (95% CI). Length of hospital stay is truncated at 100 days. Denmark, 1997-2014.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Number of days of admission after delivery | Unadjusted | Adjusted# |
|  | N\* | Mean (SD) | Median (IQR) | RR | 95 % CI | p-value | RR | 95 % CI | p-value |
| **Maternal congenital** **heart disease** |  |  |  |  |  | <0.001 |  |  | <0.001 |
| No  | 935,959 | 3.6 (4.1) | 3 (1-4) | 1 (ref) | - |  | 1 (ref) | - |  |
| Simple | 2,242 | 4.0 (5.4) | 3 (2-5) | 1.12 | 1.05-1.19 |  | 1.14 | 1.07-1.21 |  |
| Moderate  | 1,093 | 4.0 (4.2) | 3 (2-5) | 1.13 | 1.06-1.21 |  | 1.14 | 1.07-1.22 |  |
| Complex  | 384 | 5.1 (6.8) | 4 (2-5) | 1.42 | 1.22-1.66 |  | 1.45 | 1.24-1.70 |  |

\*number of births in the unadjusted analysis

#adjusted for maternal age, year of delivery, parity, ethnicity, and educational level

**Table S3.** Association between congenital heart disease and length of hospital stay after delivery given by relative ratio (RR) and 95% confidence interval (95% CI). Length of hospital stay >50 days have been excluded. Denmark, 1997-2014.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Number of days of admission after delivery | Unadjusted | Adjusted# |
|  | N\* | Mean (SD) | Median (IQR) | RR | 95 % CI | p-value | RR | 95 % CI | p-value |
| **Maternal congenital** **heart disease** |  |  |  |  |  | <0.001 |  |  | <0.001 |
| No  | 934,929 | 3.5 (3.4) | 3 (1-4) | 1 (ref) | - |  | 1 (ref) | - |  |
| Simple | 2,235 | 3.8 (3.6) | 3 (2-5) | 1.08 | 1.03-1.13 |  | 1.10 | 1.05-1.14 |  |
| Moderate  | 1,092 | 4.0 (3.5) | 3 (2-5) | 1.13 | 1.07-1.20 |  | 1.15 | 1.08-1.21 |  |
| Complex  | 383 | 4.9 (6.3) | 4 (2-5) | 1.41 | 1.21-1.64 |  | 1.44 | 1.23-1.68 |  |

\*number of births in the unadjusted analysis

#adjusted for maternal age, year of delivery, parity, ethnicity, and educational level

**Table S4**. Multilevel analysis of the association between congenital heart disease and length of hospital stay after delivery given by relative ratio (RR) and 95% confidence interval (95% CI). Denmark, 1997-2014.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Number of days of admission after delivery | Unadjusted | Adjusted# |
|  | N\* | Mean (SD) | Median (IQR) | RR | 95 % CI | p-value | RR | 95 % CI | p-value |
| **Maternal congenital** **heart disease** |  |  |  |  |  | <0.001 |  |  | <0.001 |
| No  | 935,959 | 3.6 (3.7)  | 3 (1-4) | 1 (ref) | - |  | 1 (ref) | - |  |
| Simple | 2,242 | 3.9 (4.4) | 3 (2-5) | 1.10 | 1.06-1.14 |  | 1.11 | 1.07-1.15 |  |
| Moderate  | 1,093 | 4.0 (3.8) | 3 (2-5) | 1.14 | 1.08-1.19 |  | 1.14 | 1.09-1.20 |  |
| Complex  | 384 | 5.1 (6.7) | 4 (2-5) | 1.31 | 1.20-1.42 |  | 1.32 | 1.22-1.43 |  |
|  |  |  |  |  |  |  |  |  |  |
| Random effect (SE) |  |  |  | .50(0.00) | 0.47(0.00) |

\*number of births in the unadjusted analysis

#adjusted for maternal age, year of delivery, parity, ethnicity, and educational level