**Table S1. Uni- and multivariable logistic regression analysis of the potential risk factors for pulmonary stenosis during postoperative follow-up.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Univariable analysis**  **(logistic regression)** | | | **Multivariable analysis**  **(logistic regression)** | | |
|  | **p** | **OR** | |  | | --- | | **95% CI** | | **p** | **OR** | |  | | --- | | **95% CI** | |
| |  | | --- | | **Year of surgery** | | 0.315 | 0.99 | 0.96-1.01 |  |  |  |
| |  | | --- | | **Age at operation** | | 0.689 | 1.00 | 0.99-1.00 |  |  |  |
| |  | | --- | | **Weight at operation** | | 0.132 | 0.99 | 0.99-1.00 |  |  |  |
| **Aortic cross-clamping time** | 0.018 | 1.01 | 1.002-1.02 |  |  |  |
| |  | | --- | | Pulmonary artery banding | | 0.954 | 0.96 | 0.22-4.19 |  |  |  |
| |  | | --- | | **ACHD:**  **Ventricular septal defects** | | 0.505 | 1.18 | 0.73-1.89 |  |  |  |
| |  | | --- | | **ACHD:**  **Aortic arch anomalies** | | 0.007 | 2.26 | 1.25-4.11 | 0.005 | 2.4 | 1.30-4.41 |
| **ACHD:**  **Taussig–Bing anomaly** | 0.002 | 2.43 | 1.40-4.21 |  |  |  |
| |  | | --- | | **MPA patch reconstruction** | | 0.002 | 2.19 | 1.34-3.62 | 0.005 | 2.05 | 1.24-3.40 |
| |  | | --- | | **Arterial valve discrepancies** | | 0.083 | 1.48 | 0.95-2.32 |  |  |  |
| |  | | --- | | **Coronary anomalies** | | 0.002 | 2.01 | 1.29-3.14 | 0.004 | 1.93 | 1.23-3.03 |
| **Nonfacing commissures** | 0.978 | 1.00 | 0.63-1.59 |  |  |  |

*ACHD – associated congenital heart defect; MPA – major pulmonary artery; OR – odds ratio; CI confidential interval.*

**Table S2. Uni- and multivariable Cox regression analysis of the potential risk factors for pulmonary reinterventions during postoperative follow-up.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Univariable analysis**  **(Cox regression)** | | | **Multivariable analysis**  **(Cox regression)** | | |
|  | **p** | **HR** | |  | | --- | | **95% CI** | | **p** | **HR** | |  | | --- | | **95% CI** | |
| |  | | --- | | **Year of surgery** | | 0.362 | 1.03 | 0.97-1.09 |  |  |  |
| |  | | --- | | **Age at operation** | | 0.603 | 0.99 | 0.99-1.01 |  |  |  |
| |  | | --- | | **Weight at operation** | | 0.312 | 0.99 | 0.99-1.00 |  |  |  |
| **Aortic cross-clamping time** | <0.001 | 1.02 | 1.01-1.05 |  |  |  |
| |  | | --- | | Pulmonary artery banding | | 0.988 | 0.00 | 0.00-0.00 |  |  |  |
| |  | | --- | | **ACHD:**  **Ventricular septal defects** | | 0.01 | 3.10 | 1.32-7.31 | **<0.001** | **8.71** | **3.26-23.29** |
| |  | | --- | | **ACHD:**  **Aortic arch anomalies** | | <0.001 | 4.76 | 1.92-11.8 | **0.004** | **3.86** | **1.53-9.72** |
| **ACHD:**  **Taussig–Bing anomaly** | <0.001 | 6.04 | 2.54-14.36 |  |  |  |
| |  | | --- | | **MPA patch reconstruction** | | <0.001 | 5.38 | 2.28-12.7 | **<0.001** | **5.66** | **2.35-13.61** |
| |  | | --- | | **Arterial valves discrepancies** | | 0.544 | 1.31 | 0.55-3.11 |  |  |  |
| |  | | --- | | **Coronary anomalies** | | 0.180 | 1.81 | 0.76-4.29 |  |  |  |
| **Non–facing commissures** | 0.116 | 0.42 | 0.14-1.24 |  |  |  |

*ACHD – associated congenital heart defect; MPA – major pulmonary artery; HR – hazard ratio; CI –confidential interval.*

**Table S3. Uni- and multivariable Cox regression analysis of the potential risk factors for reoperations performed due to pulmonary stenosis during postoperative follow-up.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Univariable analysis**  **(Cox regression)** | | | **Multivariable analysis**  **(Cox regression)** | | |
|  | **p** | **HR** | |  | | --- | | **95% CI** | | **p** | **HR** | |  | | --- | | **95% CI** | |
| |  | | --- | | **Year of surgery** | | 0.156 | 1.08 | 0.97-1.21 |  |  |  |
| |  | | --- | | **Age at operation** | | 0.721 | 0.99 | 0.99-1.01 |  |  |  |
| |  | | --- | | **Weight at operation** | | 0.589 | 0.99 | 0.99-1.00 |  |  |  |
| **Aortic cross-clamping time** | <0.001 | 1.05 | 1.02-1.07 | <0.001 | 1.06 | 1.02-1.09 |
| |  | | --- | | **Pulmonary artery banding** | | 0.15 | 4.63 | 0.58-37.07 |  |  |  |
| |  | | --- | | **ACHD:**  **Ventricular septal defects** | | 0.232 | 2.23 | 0.6-8.31 |  |  |  |
| |  | | --- | | **ACHD:**  **Aortic arch anomalies** | | <0.001 | 11.76 | 3.16-43.79 | 0.002 | 10.01 | 2.28-43.83 |
| **ACHD:**  **Taussig–Bing anomaly** | 0.779 | 0.01 | 0-3.2 |  |  |  |
| |  | | --- | | **MPA patch reconstruction** | | 0.003 | 7.58 | 2.03-28.32 | 0.008 | 7.96 | 1.73-36.66 |
| |  | | --- | | **Arterial valves discrepancies** | | 0.105 | 3.15 | 0.79-12.61 |  |  |  |
| |  | | --- | | **Coronary anomalies** | | 0.157 | 2.59 | 0.69-9.63 |  |  |  |
| **Non–facing commissures** | 0.993 | 0.99 | 0.99-1.00 |  |  |  |

*ACHD – associated congenital heart defect; MPA – major pulmonary artery; HR – hazard ratio; CI confidential interval.*