**Supplemental Table 1 Univariate analysis for predictors of acute kidney injury after TAVI.** Table shows univariate logistic regression analysis with odds ratio (95% confidence interval) of different predictors for acute kidney injury after TAVI. Odds ratio >1 marks positive predictors, odds ratio <1 negative predictors

|  |  |  |
| --- | --- | --- |
| **Univariate analysis for predictors of AKI post TAVI** | **OR** | **p-value** |
| Age | 1.07 (1.02-1.13) | **0.008** |
| Female | 1.20 (0.67-2.17) | 0.543 |
| Weight/kg | 0.98 (0.97-1.00) | 0.118 |
| **Comorbidities** |  |  |
| STS-Score %  | 1.12 (1.06-1.19) | **0.001** |
| NYHA class | 1.19 (0.92-1.54) | 0.194 |
| CCS class | 1.20 (0.97-1.49) | 0.097 |
| Atherosclerosis | 1.71 (0.82-3.55) | 0.151 |
| Atrial fibrillation | 1.48 (0.83-2.66) | 0.187 |
| Hypertension | 4.20 (1.27-13.91) | **0.019** |
| Diabetes mellitus | 0.76 (0.39-1.48) | 0.416 |
| Smoking | 0.78 (0.36-1.68) | 0.527 |
| Syncope | 0.99 (0.46-2.15) | 0.976 |
| History of Stroke / cerebral bleeding | 0.98 (0.44-2.21) | 0.964 |
| Pulmonary disease | 0.89 (0.42-1.86) | 0.752 |
| Malignancy | 1.50 (0.82-2.76) | 0.189 |
| Alcohol abuse | 0.73 (0.09-5.99) | 0.772 |
| ACE-inhibitor/sartan | 1.53 (0.73-3.18) | 0.261 |
| Metformin | 0.46 (0.16-1.34) | 0.155 |
| **Baseline characteristics** |  |  |
| Mean aortic valve gradient / mmHg | 0.99 (0.97-1.01) | 0.249 |
| Aortic valve opening area / cm² | 1.32 (0.27-6.48) | 0.734 |
| Mitral valve insufficiency° | 1.44 (0.87-2.39) | 0.158 |
| Ejection fraction % | 0.99 (0.96-1.01) | 0.356 |
| Baseline-creatinine mg/dl | 4.81 (2.64-8.77) | **0.001** |
| eGFR ml/min | 0.96 (0.94-0.97) | **0.001** |
| eGFR <60ml/min | 2.90 (1.55-5.42) | **0.001** |
| **Procedural characteristics** |  |  |
| AKI in CT diagnostics | 4.25 (1.71-10.55) | **0.002** |
| Percutaneous coronary intervention | 1.94 (1.07-3.52) | **0.030** |
| CT TAVI in different stays | 0.88 (0.46-1.67) | 0.695 |
| Coronary angiography on TAVI day | 1.90 (1.06-3.43) | **0.033** |
| Contrast agent TAVI /ml | 1.00 (1.00-1.01) | 0.057 |
| General anaesthesia | 1.85 (0.99-3.48) | 0.055 |
| CRP max mg/dl | 1.01 (1.01-1.02) | **0.001** |

**Supplemental Table 2 Univariate analysis for predictors of impaired kidney function after TAVI.** Table shows univariate logistic regression analysis with odds ratio (95% confidence interval) of different predictors for impaired kidney function after TAVI. Odds ratio >1 marks positive predictors, odds ratio <1 negative predictors

|  |  |  |
| --- | --- | --- |
| **Univariate analysis for predictors of impaired kidney function after TAVI** | **OR** | **p-value** |
| Age | 1.03 (0.97-1.10) | 0.335 |
| Female | 2.03 (0.94-4.39) | 0.073 |
| Weight/kg | 0.98 (0.95-1.00) | 0.053 |
| **Comorbidities** |  |  |
| STS-Score % | 1.06 (0.99-1.14) | 0.082 |
| NYHA class | 1.08 (0.80-1.48) | 0.606 |
| CCS class | 1.06 (0.81-1.40) | 0.678 |
| Atherosclerosis | 0.84 (0.38-1.83) | 0.659 |
| Atrial fibrillation | 1.48 (0.72-3.04) | 0.281 |
| Hypertension | 0.80 (0.33-1.93) | 0.619 |
| Diabetes mellitus | 0.90 (0.40-2.00) | 0.795 |
| Smoking | 0.52 (0.18-1.52) | 0.232 |
| Syncope | 0.85 (0.32-2.30) | 0.752 |
| History of Stroke / cerebral bleeding | 0.33 (0.08-1.43) | 0.140 |
| Pulmonary disease | 0.67 (0.25-1.80) | 0.428 |
| Malignancy | 0.86 (0.39-1.92) | 0.715 |
| Alcohol abuse | 1.27 (0.15-10.48) | 0.825 |
| ACE-inhibitor/sartan | 0.58 (0.26-1.26) | 0.165 |
| Metformin | 0.18 (0.02-1.32) | 0.092 |
| **Baseline characteristics** |  |  |
| Mean aortic valve gradient / mmHg | 0.98 (0.95-1.01) | 0.165 |
| Aortic valve opening area /cm² | 0.71 (0.09-5.48) | 0.741 |
| Mitral valve insufficiency° | 2.02 (1.11-3.66) | **0.021** |
| Ejection fraction % | 0.97 (0.94-1.00) | 0.055 |
| Baseline-creatinine mg/dl | 0.47 (0.17-1.28) | 0.138 |
| eGFR ml/min | 1.02 (1.00-1.03) | **0.018** |
| eGFR <60ml/min | 0.68 (0.33-1.41) | 0.297 |
| **Procedural characteristics** |  |  |
| AKI post TAVI CT | 3.18 (1.09-9.31) | **0.035** |
| PCI | 1.99 (0.95-4.17) | 0.070 |
| CT TAVI in different stays | 0.99 (0.45-2.14) | 0.969 |
| Coronary angiography on TAVI day | 0.59 (0.26-1.35) | 0.212 |
| Contrast agent in total /ml | 1.00 (1.00-1.00) | 0.677 |
| General anaesthesia | 1.72 (0.80-3.71) | 0.166 |
| CRP max mg/dl | 1.01 (1.00-1.01) | **0.001** |
| AKI post TAVI | 5.56 (2.58-11.96) | **0.001** |