**Supplemental Appendix for Outcomes after transcatheter and surgical aortic valve replacement in intermediate risk patients with preoperative mitral regurgitation: Analysis of PARTNER II randomized cohort**

**(Malaisrie et al.)**

**Supplementary Table 1. Multivariate Predictors of 2-year Composite Endpoint (Death, Any Stroke, Rehospitalization)**

|  |  |  |
| --- | --- | --- |
| **Covariate** | **HR (95%CI)** | **p-value** |
| **≥ Moderate MR** | **1.23 (0.958, 1.579)** | **0.1051** |
| LVEF | 0.992 (0.983, 1.002) | 0.1035 |
| LVEDD index | 1.075 (0.788, 1.468) | 0.6478 |
| Age | 0.995 (0.978, 1.013) | 0.6031 |
| Male Sex | 1.149 (0.931, 1.419) | 0.1948 |
| BMI | 1.002 (0.982, 1.022) | 0.8685 |
| **STS** | **1.099 (1.05, 1.15)** | **<.0001** |
| TAVR vs. SAVR | 1.057 (0.864, 1.293) | 0.5924 |

**Supplementary Table 2.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 30 Days |  | |  | |
|  |  | None | trace | mild | moderate | | severe | | No echo | dead |
|  | None | 16 | 11 | 9 | 3 | | 0 | | 7 | 2 |
| Baseline | Trace | 19 | 296 | 122 | 11 | | 0 | | 78 | 18 |
|  | Mild | 6 | 168 | 450 | 75 | | 4 | | 116 | 27 |
|  | Moderate | 1 | 9 | 106 | 108 | | 4 | | 36 | 15 |
|  | Severe | 0 | 0 | 0 | 8 | | 9 | | 3 | 1 |

**Supplementary Table 3. Multivariate analysis of predictors of MR improvement (in patients with preoperative MR ≥ moderate) after TAVR and SAVR.**

|  |  |  |
| --- | --- | --- |
| **covariate** | **OR (95% CI)** | **p-value** |
| Pulmonary Hypertension | 1.587 (0.492, 5.122) | 0.4394 |
| **LV ejection fraction** | **0.979 (0.96, 0.998)** | **0.0296** |
| **LV end-diastolic dimension** | **4.658 (2.486, 8.726)** | **<.0001** |
| PVL (mod or sev) | 2.187 (0.771, 6.203) | 0.1411 |
| Atrial fibrillation | 1.593 (0.923, 2.749) | 0.0943 |

**Supplementary Figure 1. Study flow diagram**

Intermediate-Risk Patients with Severe AS

(Intention to Treat Population)

n=2032

68 withdrawn before treatment

4 ineligible due to aortic calcification or deteriorating condition

5 died before treatment

11 withdrawn before treatment

6 died before treatment

Allocated to Surgery

n=1021

Allocated to TAVR

n=1011

Procedure initiated

(As Treated Population)

n=994

Procedure Initiated

(As Treated Population)

n=944

101 Baseline echo quality insufficient to determine MR severity

7 Concomitant Mitral Valve Procedures

92 Baseline echo quality insufficient to determine MR severity

Analysis Population

n=845

Analysis Population

n=893

≤ Mild MR

n=694

≤ Mild MR

n=744

≥Moderate MR

n=149

≥Moderate MR

n=151