Supplemental 1

Supplemental 2 a, b

a; none to mild TR grade after MitraClip
b: moderate to severe TR grade after MitraClip
Supplemental 4 a-d

4a

4b
4c

4d
**Figure legend:**

Supplemental 1. Clinical outcome of full cohort (pre-procedural none to mild TR vs. moderate to severe TR) Kaplan-Meier curves for freedom from cardiac death for pre-procedural moderate to severe TR (dotted line) vs. pre-procedural none to mild TR (solid line), showing better outcome for pre-procedural none to mild TR at 1 year (p=0.048).

Supplemental 2 a,b. Difference of TR grade before and after MitraClip therapy

Pre-procedural TR grade was reduced in 16 patients (20%), preserved in 56 (70%), and increased in 8 (10%) after the MitraClip procedure. Moderate to severe TR grade was reduced in 10 patients (23%) to mild TR grade, but preserved or increased in 34 patients (77%).

Supplemental 3. Clinical outcome of full cohort (post-procedural none to mild TR vs. moderate to severe TR) Kaplan-Meier curves for freedom from all cause death for post-procedural moderate to severe TR (dotted line) vs. post-procedural none to mild TR (solid line), showing better outcome for post-procedural none to mild TR at 1 year
(p = 0.00070) and at 3 years (p=0.0020).

Supplemental 4a-d Clinical outcome of DCM and ICM cohort

4a. Kaplan-Meier curves for freedom from all cause death for DCM (solid line) vs. ICM (dotted line), showing similar outcome in both DCM and ICM group at 1 year (p=0.47) and 3 years (p=0.79).

4b. Kaplan-Meier curves for freedom from all cause death for DCM with residural moderate to severe TR (solid line) vs. ICM with residural moderate to severe TR (dotted line), showing similar outcome in both groups at 1 year (p=0.56) and 3 years (p=0.59).

4c. Kaplan-Meier curves for freedom from all cause death for ICM with residural moderate to severe TR (dotted line) vs. none to mild (solid line), showing no significant difference group at 1 year (p= 0.075) and 3 years (p= 0.13).

4d. Kaplan-Meier curves for freedom from all cause death for DCM with residural moderate to severe TR (dotted line) vs. none to mild (solid line), showing significant difference group at 1 year (p= 0.0043) and 3 years (p= 0.0043).