

Supplement Table 1. Definitions of non-MACE complications

Complications	Definition
New-onset arrhythmia	Diagnosed by electrocardiogram and required antiarrhythmic therapy.
Deep venous thrombosis	Confirmed by venous ultrasonography and required anticoagulant therapy.
Pulmonary embolism	Diagnosed by echocardiography, scintigraphy or CT angiography, and required anticoagulant therapy.
Pulmonary infection	New infiltrate on chest radiograph combined with temperature over 38°C and leukocytosis and required antibiotic therapy.
Respiratory failure	Requirement of mechanical ventilation for more than 24 hours.
Renal failure	Requirement of renal replacement therapy.
Stress ulcer	Overt upper gastrointestinal bleeding that required antacids treatment and/or blood transfusion.
Ileus	Lack of bowel movement, presence of flatulence, and requirement of intravenous fluid therapy for more than 1 week after surgery.
Surgical bleeding	Bleeding after surgery that required secondary surgical hemostasis.
Reoperation	Requirement of second surgery other than surgical hemostasis.
Surgical site infection	Requirement of surgical site drainage.
Sepsis	Two or more criteria of systemic inflammatory response syndrome, with known infection, and requirement of antibiotic therapy.
Septic shock	Sepsis and requirement of vasopressors to maintain blood pressure.
Urinary tract infection	Confirmed by urinalysis and urine culture and necessitated antibiotic therapy.
Wound disruption	Wound rupture that requires second suturing.

MACE=Major adverse cardiovascular event.

Supplement Table 2. Data of surgery.

Items	All (n=2976)	Grade of diastolic dysfunction			P value
		Grade 1 (n=262)	Grade 2 (n=1611)	Grade 3 (n=1103)	
Location of surgery					0.576
Extremities	1074 (36.1%)	94 (35.9%)	577 (35.8%)	403 (36.5%)	
Lower abdominal	792 (26.6%)	62 (23.7%)	426 (26.4%)	304 (27.6%)	
Upper abdominal	588 (19.8%)	59 (22.5%)	313 (19.4%)	216 (19.6%)	
Thoracic	464 (15.6%)	44 (16.8%)	265 (16.4%)	155 (14.1%)	
Vascular	58 (1.9%)	3 (1.1%)	30 (1.9%)	25 (2.3%)	
Specialty of surgery					0.381
General	728 (24.5%)	57 (21.8%)	389 (24.1%)	282 (25.6%)	
Orthopedic	795 (26.7%)	80 (30.5%)	432 (26.8%)	283 (25.7%)	
Neurosurgery	33 (1.1%)	5 (1.9%)	13 (0.8%)	15 (1.4%)	
Urologic	426 (14.3%)	38 (14.5%)	227 (14.1%)	161 (14.6%)	
Thoracic	887 (29.8%)	74 (28.2%)	498 (30.9%)	315 (28.6%)	
Vascular	40 (1.3%)	4 (1.5%)	22 (1.4%)	14 (1.3%)	
Plastic	67 (2.3%)	4 (1.5%)	30 (1.9%)	33 (3.0%)	
Wound classification					0.945
Clean	1378 (46.3%)	116 (44.3%)	744 (46.2%)	518 (47.0%)	
Clean/contaminated	1204 (40.5%)	114 (43.5%)	649 (40.3%)	441 (40.0%)	
Contaminated	46 (1.5%)	4 (1.5%)	27 (1.7%)	15 (1.4%)	
Dirty/infected	348 (11.7%)	28 (10.7%)	191 (11.9%)	129 (11.7%)	

Data are presented as n (%).

MACE=major adverse cardiovascular events.

Supplement Table 3. Postoperative non-MACE complications

Items	All (n=2976)	Grade of diastolic dysfunction			P value
		Grade 1 (n=262)	Grade 2 (n=1611)	Grade 3 (n=1103)	
New-onset arrhythmia	10 (0.3%)	1 (0.4%)	3 (0.2%)	6 (0.5%)	0.284
Deep venous thrombosis	14 (0.5%)	0 (0.0%)	9 (0.6%)	5 (0.5%)	0.469
Pulmonary embolism	5 (0.2%)	0 (0.0%)	4 (0.2%)	1 (0.1%)	0.483
Pulmonary infection	39 (1.3%)	5 (1.9%)	19 (1.2%)	15 (1.4%)	0.619
Respiratory failure	5 (0.2%)	0 (0.0%)	3 (0.2%)	2 (0.2%)	0.785
Renal failure	8 (0.3%)	2 (0.8%)	1 (0.1%)	5 (0.5%)	0.042
Stress ulcer	6 (0.2%)	0 (0.0%)	2 (0.1%)	4 (0.4%)	0.297
Ileus	3 (0.1%)	0 (0.0%)	1 (0.1%)	2 (0.2%)	0.545
Surgical bleeding	7 (0.2%)	1 (0.4%)	3 (0.2%)	3 (0.3%)	0.791
Reoperation	3 (0.1%)	1 (0.4%)	1 (0.1%)	1 (0.1%)	0.316
Surgical site infection	109 (3.7%)	7 (2.7%)	62 (3.8%)	40 (3.6%)	0.641
Sepsis	36 (1.2%)	2 (0.8%)	16 (1.0%)	18 (1.6%)	0.257
Septic shock	6 (0.2%)	0 (0.0%)	3 (0.2%)	3 (0.3%)	0.663
Urinary tract infection	17 (0.6%)	4 (1.5%)	7 (0.4%)	6 (0.5%)	0.093
Wound disruption	8 (0.3%)	1 (0.4%)	5 (0.3%)	2 (0.2%)	0.762

Data are presented as n (%).

MACE=Major adverse cardiovascular event.

Supplemental Figure 1. Prevalence of MACEs and its components after surgery. 80.1% (238/297) of MACEs occurred within 3 days after surgery. MACEs = major adverse cardiovascular events.

