

Supplementary material

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Table S1. International statistical classification of performed procedures (ICD-9 codes, 9th revision) and international statistical classification of cardiovascular diseases (ICD-10 codes, 10th revision) used in the analysis

Study group	
Lead removal	37.761; 37.772; 37.992; 37.993; 37.893
Lead replacement/repositioning	37.751; 37.752; 37.753; 37.759; 37.76; 37.97; 37.971; 37.972; 37.973
PM implantation/replacement	ICD-9: 37.80–37.83; 37.85–37.87
ICD implantation/replacement	ICD-9: 37.941–37.944; 37.961; 37.962; 37.991; 37.971–37.972; 37.981–37.983; 37.942; 37.944; 37.946
CRT-D implantation/replacement	ICD-9: 00.51; 00.54; 37.997; 37.973
CRT-P implantation/replacement	ICD-9: 00.50; 00.52; 00.53; 37.792; 00.541
Medical history, complications, follow-up	
Heart failure	ICD-10: I50; I42
Coronary artery disease	ICD-10: I25; I20.1; I20.8; I20.9
Prior coronary angiography	ICD-9: 37.972; 37.973; 37.974
Prior myocardial infarction	ICD-10: I21–I22
Prior percutaneous coronary intervention	ICD-10: 88.55; 88.56; 88.57
Prior coronary bypass	ICD-9: 00.45–00.48; 36.06; 36.07; 36.09; 36.10; 00.661; 00.662 36.1 without 36.10
Stroke	ICD-10: I60–I64
Arterial hypertension	ICD-10: I10, I11, I12, I13, I15
Diabetes mellitus	ICD-10: E10–E14

Chronic kidney disease	ICD-10: N18
Dialysis	ICD-9: 39.95
Atrial fibrillation/flutter	ICD-10: I48
Valvular heart disease	ICD-10: I06.0–I06.2; I06.8; I06.9; I35; I35.1; I35.8; I.35.9; I35.2; I05; I34; I07; I36; I07.1
Hypertrophic cardiomyopathy	ICD-10: I42.1–2
Ventricular tachycardia	ICD-10: I47.2
Ventricular fibrillation	ICD-10: I49.0
Cardiac arrest	ICD-10: I46.0; I46.1; I46.9
Sinus node dysfunction	I49.5
Atrio-ventricular block second or third degree	I44.1; I44.12; I44.13; I44.2
Prior electrophysiology study	ICD-9: 37.261
Prior ablation	ICD-10: 37.271–37.272; 37.341–37.342; 37.331; 37.80–37.83
Pulmonary embolism	ICD-10: I26
Infective endocarditis	ICD-10: I33; I38; I39
Pericardiocentesis	ICD-9: 37.0
Cardiotomy	37.1
Pneumothorax	ICD-10: J93
Hemothorax	ICD-10: J94.2
Cardiac tamponade	ICD-10: I31.91
Pericardiotomy	37.12
Cardiotomy	37.11
Thoracotomy	34.01, 34.02, 34.1
Blood transfusion	ICD-9: 99.0
Pocket revision	ICD-9: 37.791; 37.793; 37.996; 37.997
Lead revision	ICD-9: 37.751; 37.752; 37.753; 37.759; 37.76; 37.97; 37.971; 37.972; 37.973

Abbreviations: CRT-D, cardiac resynchronization therapy-defibrillator; CRT-P, cardiac resynchronization therapy-peacemaker; ICD, implantable cardioverter-defibrillator; PM, peacemaker

Table S2. Baseline clinical characteristics, lead and department type of patients undergoing transvenous lead extraction

Variable	Analysed group (n = 835)
Age, years (SD)	66.5 (14.5)
Male, n (%)	572 (68.5)
Device type, n (%)	
PM	438 (52.5)
ICD	310 (37.1)
CRT-D	77 (9.2)
CRT-P	10 (1.2)
Dwelling time, years (SD)	4.6 (2.9)
Department type, n (%)	
Cardiology	825 (98.8)
Cardiac surgery	10 (1.2)
Hospitalization length, days, median (IQR)	6 (4–12)
Medical history, n (%)	
Heart failure	495 (59.3)
Coronary artery disease	43.6 (52.2)
Prior coronary angiography	369 (44.2)
Prior myocardial infarction	78 (9.3)
Prior percutaneous coronary intervention	159 (19)
Prior coronary bypass	20 (2.4)
Stroke	36 (4.3)
Arterial hypertension	382 (45.7)
Diabetes mellitus	142 (17)

Chronic kidney disease	40 (4.8)
Prior dialysis	11 (1.3)
Prior infective endocarditis	12 (1.4)
Atrial fibrillation/flutter	272 (32.6)
Valvular heart disease	161 (19.4)
Hypertrophic cardiomyopathy	24 (2.9)
Sinus node dysfunction	151 (18.1)
Atrio-ventricular block second or third degree	128 (15.3)
Prior ventricular tachycardia	35 (4.2)
Prior ventricular fibrillation	24 (2.9)
Cardiac arrest	29 (3.5)
Prior electrophysiology study	14 (1.7)
Prior ablation	35 (4.2)

Abbreviations: IQR, interquartile range; SD, standard deviation. Other — see *Table S1*

Table S3. The 12-month clinical outcomes^a

Variable, n (%)	Analysed group (n = 835)
Death	65 (7.8)
Stroke	14 (1.7)
Re-hospitalisation due to cardiovascular reason	303 (40)
Major adverse cardiac events	334 (30.1)
Pulmonary embolism	3 (0.3)
Pocket revision	20 (2.4)
Lead revision	34 (4.1)
De-novo atrial fibrillation	36 (4.3)
Infective endocarditis	11 (1.3)
Device up-grade	13 (1.7)

Device replacement	17 (2.1)
Out-patient visit	807 (96.6)

^aEvents that occurred during transvenous lead extraction hospitalization were excluded from the analysis

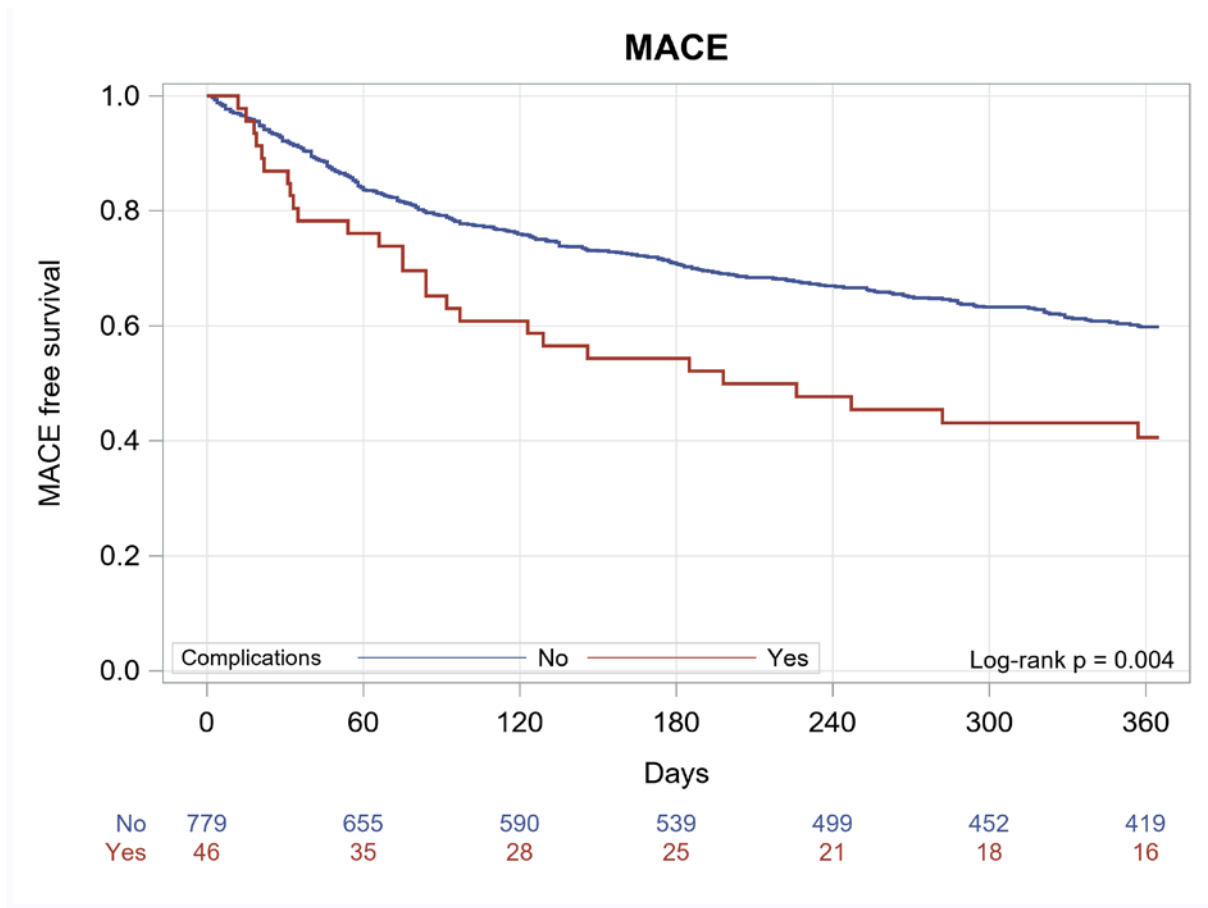


Figure S1. Twelve-month MACE of the study groups

The twelve-month major adverse cardiac events rate analyzed using the Kaplan–Meier method with the log-rank test.

Abbreviations: MACE, major adverse cardiac events