

Table 2. Explanted CIED, lead and procedure related characteristics.

	Total (n=302)	TightRail group (n=169)	Evolution group (n=133)	p value
CIED type				
AAI-PM	1 (0.3)	0 (0.0)	1 (0.8)	0.440
VVIR-PM	21 (6.9)	11 (6.5)	10 (7.5)	0.731
VDDR-PM	9 (2.9)	5 (3.0)	4 (3.1)	1.000
DDDR-PM	84 (27.8)	41 (24.3)	43 (32.3)	0.120
VVIR-ICD	51 (16.9)	24 (14.2)	27 (20.3)	0.160
DDD-ICD	69 (22.8)	40 (23.7)	29 (21.8)	0.701
CRT-D	62 (20.5)	43 (25.4)	19 (14.3)	0.017
CRT-D (VVI)	2 (0.7)	2 (1.2)	0 (0.0)	0.506
CRT-P	3 (1.0)	3 (1.8)	0 (0.0)	0.258
Total no of leads	566	333	233	
No leads/patient	1.8±0.73	1.95±0.77	1.75±0.67	0.052
Lead dwell time (year)	0.6-33 (5)	0.6-33 (5)	0.6-22 (5.1)	0.775
Lead type				
Atrial	206 (36.4)	120 (36.0)	86 (36.09)	0.240
Ventricular (pacing & defibrillation lead)	301 (53.2)	172 (51.7)	129 (55.4)	0.671
Defibrillation lead	184 (32.5)	107 (32.1)	77 (33.0)	0.338
Coronary sinus	59 (10.4)	41 (12.3)	18 (7.7)	0.020
Fixation mechanism				
Active	119 (20.9)	90 (26.9)	29 (12.4)	0.001
Passive	447 (79.1)	243 (73.1)	204 (87.6)	0.062
TLE indications				
Infection	130 (43)	83 (49.1)	47 (35.3)	0.016
Pocket infection	120 (39.8)	75 (44.7)	45 (32.4)	0.063
Lead dysfunction	147 (48.7)	70 (41.4)	77 (57.9)	0.004
Device upgrade	19 (6.3)	15 (8.9)	4 (3.0)	0.037
Before mastectomy	1 (0.3)	1 (0.6)	0 (0.0)	1.000
Lead related complication-RV perforation	2 (0.7)	0 (0.0)	2 (1.5)	0.193
Lead related complication-SVC thrombus	1 (0.3)	0 (0.0)	1 (0.8)	0.440
Diameter of mechanical dilator sheaths				
9F	163 (37.9)	62 (24.6)	111 (58.7)	0.001
11F	158 (36.6)	86 (34.1)	72 (38.0)	
13F	110 (25.5)	104 (41.3)	6 (0.3)	
PM-dependency	74 (24.5)	44 (26.0)	30 (22.6)	0.485
Previous history of TLE	14 (4.6)	8 (4.7)	6 (4.5)	0.927
Symptom/signs on admission				
Symptomatic	183 (60.6)	112 (66.3)	71 (53.4)	0.023
Purulent drainage from the pocket	59 (19.5)	37 (21.9)	22 (16.5)	
Skin erosion	37 (12.3)	25 (14.8)	12 (9.0)	
Swelling and fluid collection	27 (8.9)	16 (9.5)	11 (8.3)	
Inappropriate ICD shocks	24 (7.9)	14 (8.3)	10 (7.5)	
Dyspnea	20 (6.6)	13 (7.7)	7 (5.3)	
Syncope	5 (1.6)	1 (0.6)	4 (3.1)	
Fever	7 (2.3)	5 (3.0)	2 (1.6)	

Alarm sound from CIED	2 (0.6)	0 (0.0)	2 (1.6)	
Palpitation	1 (0.3)	0 (0.0)	1 (0.8)	
Diaphragm stimulation	1 (0.3)	1 (0.6)	0 (0.0)	
CIED-infection				
Local	120 (92.3)	75 (90.3)	45 (91.8)	0.126
Systemic	10 (7.7)	6 (9.7)	4 (8.2)	
Culture positivity	79 (26.2)	53 (31.4)	26 (19.5)	0.020
Lead	37 (12.3)	32 (18.9)	5 (3.8)	0.001
Drainage fluid	67 (22.2)	44 (26.0)	23 (17.3)	0.069
Blood sample	10 (3.3)	6 (3.6)	4 (3.0)	1.000
Antibiotic use	132 (43.7)	83 (49.1)	49 (36.8)	0.033
Duration of antibiotic (day)	7-42 (14)	7-42 (14)	14-42 (14)	0.054
Vegetation on echocardiography	20 (6.6)	13 (7.7)	7 (5.3)	0.399
<10 mm	13 (4.3)	10 (5.9)	3 (2.2)	
>10 mm	7 (2.3)	3 (1.8)	4 (3.1)	

Data are median (min-max), means + SD or n (%).

CIED: cardiovascular implantable electronic device; CRT: cardiac resynchronization therapy; ICD: implantable cardioverter defibrillator; Max: maximum; Min: minimum; PM: pacemaker; RV: right ventricle; SCD: sudden cardiac death; SD: standard deviation; SVC: superior vena cava; TLE: transvenous lead extraction