

Supplementary Table 2 - Radiofrequency catheter ablation procedural data and outcomes

Procedural Characteristics *	N = 64
3D electroanatomic mapping system and multielectrode mapping catheter - no. (%)	64 (100)
Carto 3 and Pentarray- no. (%)	50 (78.1)
Ensite Precision and HD grid - no. (%)	8 (12.5)
Rhythmia and Intellamap Orion - no. (%)	6 (9.4)
Real-time image integration - no. (%)	11 (17.2)
MDCT- no. (%)	6 (9.4)
MRI - no. (%)	6 (9.4)
LV endocardial access - no. (%)	64 (100)
Anterograde transseptal - no. (%)	34 (53.1)
Retrograde aortic - no. (%)	12 (18.8)
Combined - no. (%)	18 (28.1)
LV epicardial access- no. (%)	1 (1.6)
Substrate Mapping **	
Sinus rhythm or atrial pacing/Right ventricle pacing - no. (%)	31 (48.4)/33 (51.6)
Number of points – median [IQR]	2556 [1495]
Scar location	
Left anterior descending coronary artery territory - no. (%)	24 (37.5)
Circumflex artery or right coronary artery territory - no. (%)	39 (61)
Combined - no. (%)	1 (1.6)
Total LV surface area - cm ²	230±78
Scar surface area # - cm ² (% Total LV surface area)	88±60 (39)
Dense scar surface area # - cm ² (%Total LV surface area)	40±35 (18)
LAVAs region surface area - cm ² (%Total LV surface area)	24±17 (10)
VT induction and mapping	
VT inducible	53 (82.8)
Clinical VT inducible	23 (35.9)
Non-clinical VT inducible	44 (68.8)
Activation / Entrainment mapping - no. (%)	24 (37.5) / 3 (4.7)
Pace mapping - no. (%)	14 (21.9)
Ablation	
Open-irrigated catheter with contact force monitoring	58 (90.6)
Thermocool Smarttouch® - no. (%)	50 (78.1)
TactiCath Quartz® - no. (%)	8 (12.5)
Open-irrigated catheter without contact force monitoring (Intellanav MIFI OI®) - no. (%)	6 (9.4)
Procedural data	
Total procedure time – min	305±65
Total x-ray exposure time – min	24±10
Total radiofrequency energy delivery time – min	55±26
Procedural endpoint	
Assessment of VT inducibility	47
Clinical VT still inducible - no. (%)	1 (2.6)
Non-clinical VT still inducible - no. (%)	18 (28.1)
Non-inducibility of any VT - no. (%)	28 (43.8)
Elimination of all late potentials - no. (%)	60 (93.8)
Long-term clinical outcome	
Appropriate ICD shock - no. (%)	11 (12.2)
Repeat procedures - no. (%)	4 (6.3)
VT storm - no. (%)	1 (1.6)
All-cause mortality - no. (%)	15 (23.4)
Cardiovascular	9 (60)
Noncardiovascular	5 (33)
Unknown	1 (7)

* Plus-minus values are means ± standard deviation.

** Data regarding LV endocardial maps.

Areas of scar (defined as bipolar voltage <1.5mV) and dense scar (defined as bipolar voltage < 0.5mV). In patients mapped with the Intellamap Orion® basket catheter an adjusted voltage range of 0.2–0.8 mV was used 20.

3D: Three dimensional; ICD: Implantable cardioverter-defibrillator; IQR: Interquartile Range; LAVAs: local abnormal ventricular activities; LV: Left ventricle; MDCT: Multidetector computed tomography; MRI: magnetic resonance; VT: Ventricular tachycardia