**SUPPLEMENTARY TABLE 1.** Median number of acquired points for the initial rotor map with each mapping system.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Rhythmia | Carto3 | Ensite Precision \* |
| Left atrium (number of maps = 17) | 22135[12603 – 30902] | 2576 [2368 – 6019] | 5452 - 6426 |
| Right atrium (number of maps = 9) | 11546[10380 – 16678] | 2372 - 2427  | 2317 - 3292 |

\* Points in use. Total number of points was 37183 - 92480 for the left atrium, and 14296 - 19785 for the right atrium.

Data are shown as median [interquartile range] or as range, if only two maps were created.

**SUPPLEMENTARY TABLE 2.** Detailed procedural results in each patient.

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| --- | --- | --- | --- | --- | --- |
| Patient number | Number of rotors | Effect of rotor ablation | Number of sites with STD \* | Effect of STD ablation | ATs ablated and other performed ablations (apart from focal ablation of rotors and sites with STD). |
| 1 | 2 | AT |  |  | - Small reentry in the posterior LA wall. |
| 2 | 0 † |  |  |  | - Small reentry in the RSPV + right superior PVI. |
| 3 | 1 | SR |  |  | - Typical atrial flutter. - Right superior PVI. |
| 4 | 1 | AT |  |  | - Typical atrial flutter. - Focal AT in the posterior LA wall. |
| 5 | 3 | AT |  |  | - Perimitral flutter: ASL.- Typical atrial flutter.- SVC isolation + line between SVC and IVC to connect rotor ablation sites. |
| 6 | 2 | AT |  |  | - Small reentry in the LA roof.- Perimitral flutter: MAL.- Typical atrial flutter. |
| 7 | 2 | SR |  |  | - Macroreentry around the left pulmonary veins.- Macroreentry around the right pulmonary veins. |
| 8 | 5 | SR |  |  | - PVI (rotors within the RSPV and LSPV antra).- Focal AT in the crista terminalis.  |
| 9 | 3 | AT |  |  | - Small reentry in posteroseptal mitral annulus.- Perimitral flutter: MAL.- Focal AT from proximal coronary sinus.- PVI (gaps from previous procedure).- Prophylactic ASL.- CTI ablation (gap from previous procedure). |
| 10 | 0 |  | 2 | AT | - Typical atrial flutter.- Macroreentry around the left pulmonary veins.- Right inferior PVI (gap from previous procedure). |
| 11 | 0 |  | 4 | No effect | - Right PVI (sites with SPT within the RSPV antrum). Left pulmonary veins were spontaneously isolated.- Line from anterior mitral annulus to scar in the anterior LA wall including site with SPT.- Empirical CTI ablation after electrical cardioversion.  |
| 12 | 1 | SR |  |  | - Right PVI (rotor within the RSPV antrum).- Small reentry in the posterior LA roof. |
| 13 | 1 | No effect | 2 | AT | - Macroreentry around the right pulmonary veins.- Line from anterior mitral annulus to scar in the anterior LA wall including rotor.- Small reentry in the interatrial septum.- Macroreentry around the left pulmonary veins. |
| 14 | 0 |  | 6 | AT | - PVI (sites with SPT within the LIPV and RIPV antra).- Roof line (site with SPT in the LA roof).- Small reentry in anterior mitral annulus.- Small reentry in anteroseptal LA wall.- ASL to connect small-reentry focal ablations.- Prophylactic CTI ablation. |
| 15 | 3 | SR |  |  | - ASL to connect 2 focal rotors ablations (PVI performed in previous procedure).- Prophylactic CTI ablation. |
| 16 | 1 | SR |  |  | - Perimitral flutter: ASL.- Small reentry in anterior LA wall.- Left PVI (gaps from previous procedure).- Typical atrial flutter. |
| 17 | 1 | AT |  |  | - Right PVI (rotor within RSPV antrum).- Small reentry in LSPV: focal ablation.- Macroreentry around the left pulmonary veins: left PVI.- Perimitral flutter: ASL.- AVNRT. |
| 18 | 0 |  | 3 | AT | - PVI (sites with SPT within the LIPV and RIPV antra, and in the ridge).- Reentry around posterior LA wall scar.- Perimitral flutter: ASL.- Focal AT from the vein of Marshall.- Focal AT from the anterior LA wall.- Prophylactic posterior LA box. |

ASL = anteroseptal line (line between mitral annulus and right superior pulmonary vein); AT = atrial tachycardia; AVNRT = atrioventricular nodal reentrant tachycardia; CTI = cavotricuspid isthmus; IVC = inferior vena cava; LA = left atrium; LIPV = left inferior pulmonary vein; LSPV = left superior pulmonary vein; MAL = modified anterior line (line between mitral annulus and left superior pulmonary vein); PVI = pulmonary vein isolation; RIPV = right inferior pulmonary vein; RSPV = right superior pulmonary vein; STD = spatiotemporal dispersion; SVC = superior vena cava.

\* Sites with spatiotemporal dispersion plus non-continuous fractionation were only mapped if no rotors were present or if rotor ablation was ineffective.

† Spontaneous conversion from AF to stable AT occurred after rotor mapping in the left atrium was completed (no rotors were found).