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

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| --- | --- | --- | --- |
|  | 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).