

SUPPLEMENTAL MATERIAL

Supplemental Table 1- *Demonstrates the number of AFD identified and ablated in each patient and the achieved ablation response on a per AFD basis.*

Patient ID	Number of AFD [†] identified	Number of AFD ablated	Anatomical location of AFD	Ablation response	Ablation duration min
1	5	5	Lateral	No effect	2.1
			Anterior/Mid septal	SCL [‡]	2.4
			Anterior LAA [§]	SCL	3.1
			Mid posterior	SCL	2.1
			Lateral	AT	2.5
2	3	3	Mid posterior	No effect	1.8
			Mid roof	SCL	2.5
			LAA ridge/lateral	No effect	2.3
3	1	1	Mid anterior	AT	3.1
4	0	0	SR on PVI	SR	/
5	2	2	LAA/Roof	SCL	2.8
			Anterior	SCL	3.3
6	4	2	LAA/Roof	SCL	3.0
			Mid anterior	AT	2.8
			Mid posterior	Not targeted	

			Lateral	Not targeted	
7	4	3	High anterior	SCL	2.1
			Posterior roof	No effect	2.9
			Endocardial proximal CS [#]	AT	3.2
			Mid anterior	Not targeted	
8	3	2	Anterior RUPV ^{**}	SCL	3.1
			Roof/RUPV	AT	2.1
			Anteroseptum	Not targeted	
9	3	2	Mid anterior	SCL	2.5
			Mid roof	SR	1.9
			Endocardial CS distal	Not targeted	
10	0	0	SR on PVI	SR	/
11	3	2	Septal	SCL	3.0
			Roof	AT	2.2
			Inferior RUPV	Not targeted	
12	3	3	Mid lateral	SCL	2.0
			Posteroseptal	No effect	2.3
			Low posterior	AT	2.9
13	3	2	Low septal	SCL	2.1
			Mid lateral	SR	1.9

			Mid roof	Not targeted	
14	3	3	Low septum	No effect	2.3
			Low anterior	SCL	2.2
			Posterior/Lateral	AT	1.9
15	2	2	Mid roof	SCL	2.1
			Lateral	SR	3.2
16	3	1	High anterior	AT	2.4
			Mid roof	Not targeted	
			Inferior/Lateral	Not targeted	
17	6	6	Roof/LAA	No effect	2.5
			Mid posterior	No effect	2.4
			Low septum	SCL	3.1
			Mid roof	SCL	3.0
			Mid anterior	SCL	3.4
			Anteroseptum	No effect	3.1
18	3	3	High anterior	No effect	2.5
			Roof/RUPV	SCL	2.7
			Roof/LAA	SR	1.9
19	3	3	Mid posterior	No effect	2.0
			High anterior	SCL	3.2

			Mid roof	SR	2.7
20	5	4	Posterior/Inferior	No effect	2.8
			LAA/Roof	SCL	2.3
			Low anterior	SCL	3.1
			Mid lateral	AT	2.2
			Septal	Not targeted	
21	2	2	High posterior	SCL	2.8
			Mid anterior	AT	2.1
22	4	4	Lateral	SCL	2.1
			LAA/Roof	SCL	3.2
			RUPV/Anteroseptum	No effect	2.6
			Mid Septum	No effect	3.4
23	3	2	High posterior	SCL	2.8
			Mid anterior	AT	3.4
			LAA/Roof	Not targeted	
24	3	2	Mid anterior	SCL	2.8
			Lateral	SCL	3.3
			Anteroseptum	Not targeted	
25	2	2	Mid posterior	No effect	2.2

			Mid roof	AT	2.9
26	3	3	Mid anterior	No effect	3.3
			Inferior RUPV	SCL	3.1
			Septum	SCL	2.8
27	2	2	Posterior/inferior	SCL	2.4
			Distal endocardial CS	AT	2.6
28	2	2	Roof/LAA	SCL	2.9
			Low anterior	SR	2.9
29	3	2	Mid lateral	SCL	3.6
			Posteroseptum	SR	2.7
			Mid roof	Not targeted	3.5
30	0	0	AT on PVI	AT	/

†AFD- Atrial fibrillation driver

‡SCL- Slowing of CL

§LAA- Left atrial appendage

||PVI- Pulmonary vein isolation

#CS- Coronary sinus

**RUPV- Right upper pulmonary vein