

Table 1

Patient	Age (years old)	Size of ASD (mm)	Size of Device (mm)	Number of Attempt	Fluoroscopic Time (minutes)	Device Placement Time (minutes)	Total Microembolic Signals	Microembolic Signals in Each Period				
								Device Placement and Release	Sizing and Long sheath	Right Heart Cath	Left Heart Cath	Left Heart Angios
1	7.8	18	19	2	15.8	20	113	50	39	-	20	4
2	21	18	24	2	22.7	13.4	63	28	19	11	4	1
3	10.8	16.4	20	2	23.3	11.2	56	9	9	-	37	1
4	31.2	25	28	1	23.3	11.2	3	1	0	0	2	0
5	17.4	11.2	15	1	15.8	11	43	12	5	1	15	10

6	42.3	16	20	1	4	9.8	57	18	29	0	9	1
7	24	13	16	1	7.5	9.2	22	12	1	-	9	0
8	20.5	16	20	1	9	5.2	34	4	7	0	17	6
9	9.7	11	14	1	5.6	5.2	39	13	17	1	7	1
10	16	13	14	1	11.5	4.8	29	0	11	-	11	7
11	13.8	7	12	1	8.3	4.5	17	6	5	0	6	0
12	35.2	13	16	1	15.7	4.3	19	5	1	-	10	3
13	17.1	7.8	10	1	19.9	4.1	4	4	0	-	0	0
14	27.3	11	13	1	8.6	3.9	46	7	3	-	36	0
15	11.4	8.1	10	1	7.8	3.3	4	1	2	0	-	-
16	9.8	10	14	1	15.7	3.1	21	4	8	0	4	5

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## Abbreviations

Angios, angiocardiology; cath, catheterization