

Table S1 Baseline characteristics and the anatomic features of the fistulas

Characteristics	Treated group (N=98)				Untreated group (N=154)	P value	Total (N=252)
	TCC (N=70)	SC (N=28)	P value	Total (N=98)			
Demographic features							
Age, y	39.16±14.2	43.68±14.65	0.161	40.45±14.4	53.28±13.21	<0.001	48.29±15.03
Body mass index, kg/m ²	24.2±3.71	23.12±3.62	0.191	23.89±3.7	26.03±4.14	<0.001	25.04±4.08
Male, n (%)	32 (45.71)	10 (35.71)	0.366	42 (42.86)	76 (50)	0.269	118 (47.20)
Comorbidities, n (%)							
Hyperlipidemia	7 (10)	3 (10.71)	1	10 (10.2)	81 (52.60)	<0.001	169 (67.06)
Diabetes	1 (1.43)	0	1	1 (1.02)	22 (14.29)	<0.001	23 (9.13)
Hyperlipidemia	3 (4.29)	3 (10.71)	0.464	6 (6.12)	67 (43.51)	<0.001	73 (28.97)
Previous history of Surgery, n (%)			0.059			0.008	
TCC	0 (0.00)	2 (6.06)		2 (2.04)	0		3 (3.06)
SC	1 (1.54)	2 (6.06)		3 (3.06)	0		2 (0.79)
Clinical manifestation, n (%)							
Asymptomatic	17 (24.29)	5 (17.86)	0.491	22 (22.45)	115 (74.68)	<0.001	137 (54.37)
Murmur	16 (22.86)	6 (21.43)	0.878	22 (22.45)	3 (1.95)	<0.001	25 (9.92)
Chest pain	25 (35.71)	4 (14.29)	0.036	29 (29.59)	12 (7.79)	<0.001	41 (16.27)
Palpitation	14 (20)	5 (17.86)	0.808	19 (19.39)	11 (7.14)	0.003	30 (11.90)
Dyspnea on exertion	14 (20)	10 (35.71)	0.102	24 (24.49)	20 (12.99)	0.019	44 (17.46)
Infective endocarditis	2 (2.86)	1 (3.57)	1	3 (3.06)	0	0.112	3 (1.19)
Anatomic features of the fistula							
Origin site, n (%)			0.558			<0.001	
LAD	8 (11.43)	5 (17.86)		13 (13.27)	64 (41.56)		77 (30.56)
RCA	34 (48.57)	13 (46.43)		47 (47.96)	28 (18.18)		75 (29.76)
LCX	15 (21.43)	3 (10.71)		18 (18.37)	3 (1.95)		21 (8.33)
LM	5 (7.14)	2 (7.14)		7 (7.14)	8 (5.19)		15 (5.95)
LCX+LAD	1 (1.43)	0		1 (1.02)	2 (1.3)		3 (1.19)
LCX+LM	2 (2.86)	0		2 (2.04)	0		2 (0.79)
RCA+LCX	1 (1.43)	1 (3.57)		2 (2.04)	0		2 (0.79)
RCA+LM	0	0		0	1 (0.65)		1 (0.40)
RCA+LAD	3 (4.29)	4 (14.29)		7 (7.14)	47 (30.52)		54 (21.43)
RCA+LAD+LCX	1 (1.43)	0		1 (1.02)	1 (0.65)		2 (0.79)
Terminations, n (%)			0.768			<0.001	
PA	11 (15.71)	5 (17.86)		16 (16.33)	141 (91.56)		157 (62.3)
LV	28 (40)	11 (39.29)		39 (39.8)	3 (1.95)		42 (16.67)
RA	13 (18.57)	6 (21.43)		19 (19.39)	1 (0.65)		20 (7.94)
RV	10 (14.29)	4 (14.29)		14 (14.29)	3 (1.95)		17 (6.75)
CS	4 (5.71)	0		4 (4.08)	2 (1.3)		6 (2.38)
LA	2 (2.86)	0		2 (2.04)	2 (1.30)		4 (1.59)
IVC	2 (2.86)	1 (3.57)		3 (3.06)	0		3 (1.19)
RA+LA	0	1 (3.57)		1 (1.02)	0		1 (0.4)
LA+LV	0	0		0	1 (0.65)		1 (0.4)
RA+LV+RV	0	0		0	1 (0.65)		1 (0.4)
CAF Type, n (%)			1			<0.001	
CPF	59 (84.29)	23 (82.14)		82 (83.67)	13 (8.44)		95 (37.7)
CCF	11 (15.71)	5 (17.86)		16 (16.33)	141 (91.56)		157 (62.3)
Multiple origins, n (%)	8 (11.43)	5 (17.86)	0.604	13 (13.27)	51 (33.12)	<0.001	64 (25.40)
Bilateral origins, n (%)	5 (7.14)	5 (17.86)	0.225	10 (10.2)	49 (31.82)	<0.001	59 (23.41)
Multiple draining sites, n (%)	9 (12.86)	4 (14.29)	1	13 (13.27)	64 (41.56)	<0.001	77 (30.56)
Proximity of origin, n (%)			0.076			0.321	
Distal	14 (20)	3 (10.71)		17 (17.35)	29 (18.83)		46 (18.25)
Proximal	56 (80)	23 (82.14)		79 (80.61)	116 (75.32)		195 (77.38)
Proximal + Distal	0	2 (7.14)		2 (2.04)	9 (5.84)		11 (4.37)
Pathway morphology, n (%)			0.214			<0.001	
Multiple origins, Multiple draining sites, and Tortuous	3 (4.29)	3 (10.71)		6 (6.12)	47 (30.52)		53 (21.03)
Multiple origins, Single draining site, and Tortuous	6 (8.57)	2 (7.14)		8 (8.16)	4 (2.60)		12 (4.76)
Single origin, Multiple draining sites, and Tortuous	6 (8.57)	1 (3.57)		7 (7.14)	17 (11.04)		24 (9.52)
Single origin, Single draining site, and Straight	8 (11.43)	0		8 (8.16)	20 (12.99)		28 (11.11)
Single origin, Single draining site, and Tortuous	47 (67.14)	22 (78.57)		69 (70.41)	66 (42.86)		135 (53.57)
Plexus-like morphology, n (%)	0	1 (3.57)	0.286	1 (1.02)	37 (24.03)	<0.001	38 (15.08)
Coronary artery dilation, n (%)			0.013			<0.001	
Diffuse Dilation	10 (14.29)	11 (39.29)		21 (21.43)	4 (2.60)		25 (9.92)
Segmental Dilation	53 (75.71)	13 (46.43)		66 (67.35)	44 (28.57)		110 (43.65)
Aneurysm, n (%)	49 (70)	20 (71.43)	0.889	69 (70.41)	6 (3.9)	<0.001	75 (29.76)
Giant Aneurysm, n (%)	25 (35.71)	12 (42.86)	0.51	37 (37.76)	2 (1.30)	<0.001	39 (15.48)
Diameter of draining site, mm	8.01±4.97	9.17±6.14	0.332	8.34±5.32	3.87±2.74	<0.001	7.30±5.19
Size of the fistula, n (%)			0.137			<0.001	
Large	53 (75.71)	23 (82.14)		76 (77.55)	6 (3.9)		82 (32.54)
Medium	16 (22.86)	3 (10.71)		19 (19.39)	14 (9.09)		33 (13.10)
Small	1 (1.43)	2 (7.14)		3 (3.06)	134 (87.01)		137 (54.37)

Data are presented as n (%) or mean ± standard deviation. CCFs, coronary-cameral fistulas; CPAFs, coronary-pulmonary artery fistulas; CS, coronary sinus; IVC, superior vena cava; LA, left atrium; LAD, left anterior descending branch; LCX, left circumflex branch; LM, left main coronary artery; LV, left ventricle; PA, pulmonary artery; RA, right atrium; RCA, right coronary artery; RV, right ventricle; SC, surgical closure; TCC, transcatheter closure.