

Supplementary material

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Table S1. Short term results and long term follow-up of ventricular septal defect transcatheter closure in the years 2002–2016

A. Perimembranous VSD

No./Sex	Date of the proc.	Age, years/ weight, kg	VSD, mm diam/device	Early results/ complications	Follow- up, years	Late results/ comment
1. /M	11.02	9.3/30	4/AMO 6	Ok, TI(+)	8	RBBB, sportsman
2. /M	12.02	11/29	4/AMO 6	Ok, TI trivial	3	
3. /F	11.02	3.2/14	4/AMO 6	Ok	4	
4. /F	06.03	23/51	4/AsVSO 12	Ok	8	
5. /F	06.03	3.2/14	4/AMO 6	Ok	5	Ok
6. /M	06.03	7/29	4/AsVSO 10	Cavb — device withdrawn	–	–
7. /F	08.03	8/22	4.5/AMO 6	Ok, TI(++)	19	TI(+), gave birth to 1 baby
8. /F	08.03	10/45	6/AsVSO 10	Ok, cavb after 2 weeks, pacemaker	20	Gave birth to 2 babies
9. /F	08.03	5/19	5.5/AsVSO 8	Ok, small rs	20	Gave birth to 2 babies

10. /F	09.03	7/19	6/AsVSO 8	VF, device withdrawn	–	–
11. /F	11.03	20/47	5/AMO 8	Ok, TI(+)	6	TI(++)
12. /F	08.04	36/57	5/AsVSO 8	Ok	8	
13. /M	12.04	14/50	5/AsVSO 8	Ok, cavb after 1 week corticoster.	13	ExV
14. /F	06.05	7/19	4/AMO 8	Ok, TI(+)	17	Down S
15. /M	06.05	38/101	5/AsVSO 8	Ok, AI(+)	10	AI(+)
16. /F	12.05	40/56	5/AMO 6	Ok	4	
17. /F	09.06	32/71	6/AMO 10	Ok, TI trivial	12	TI trivial
18. /F	04.07	35/54	4.5/AMO 6	Ok, TI trivial	16	ExV
19. /M	06.08	10/40	8/AsVSO 10	Ok	15	sss, without pacemaker
20. /F	05.12	4/18	3.5/PDA COF 8/6	Ok, rs	11	
21. /F	04.16	2/12	3/ADOII AS 4/4	Ok	2	

B. Muscular VSD

No./Sex	Date of the proc.	Age, years/ weight, kg	VSD diam/device, mm	Results/ complication	Follow-up, years	Late result/ comment
22. /F	06.02	1.5/9	5/6 AMO	Ok, rs	8	
23. /F	05.03	2.7/10.6	9/10 AMO	Ok, rs ++	0.5	Next procedure
	11.03	3.2/12	4/4 AMO	Ok, rs	5.4	
24. /F	07.03	0.8/9.6	Multi/6 AMO	Ok, rs	5.5	rs
25. /M	12.03	7/19	10/12 AMO	Embol/ surg m Rastelli ^a	–	TGA, pmVSD, MVSD, PS, AMO retrived during surg

26. /M	06.04	43/89	7/8 AMO	Ok /after 2-nd day embol	–	IVS 11 mmm, retrived tc
27. /F	04.05	46/81	7/10 AMO	Ok	2.8	Lost after 3 years
28. /F	08.05	1.5/8.4	Multi/6 AMO	Ok, rs trivial	3	rs trival
29. /F	11.07	1.2/10.2	Multi/6 AMO	Ok, rs++	0.5	rs, next procedure,
	06.08	1.8/11.4	4/6 AMO	Ok (hybrid)	15	Restrictive cmp, HF, OHT 03.24
30. /M	02.08	18/70	Post traum 6/8 AMO	Embol shortly after proc	–	IVS 10 mm, retrived tc
31. /M	04.08	1.7/11.2	6 ^b /–	Impossible cannulation	–	MVSD closed surgically
32. /F	01.09	2.7/14	8/8 AMO hybrid	Ok	11	
33. /F	07.09	2/9.4	5.5/6 AMO hybrid	Ok	14	sss, pacemaker 15 years
34. /F	08.09	1.5/7.1	5.5	During proc VF abandoned	–	Surgery
35. /F	09.09	8/35	5 (inflow)/6 AMO	Ok, °TI++++	–	Surgery of TV & VSD
36. /F	08.11	10/26	Multi/12 AMO	rs, TI(++)	0.3	Next procedure
	10.11	10.3/26	9/AMO 14	Ok, (TI+)	12	
37. /F	11.11	2/7.4	Multi/AMO 6	Ok, rs (++)	0.1	rs, next proc
	12.11	2/7.5	Multi/ADOII 5/6	Ok, rs	10	
38. /F	10.12	1.8/7.7	7/8 AMO hybrid	Ok, RBBB	11	RBBB, epi ADHD
39. /F	04.13	0.9/8.4	10/12 AMO	Ok, rs	10	
40. /M	11.13	0.7/4.9	4/ADOII 4/6 hybrid	Ok, rs tiny	8	Ok

41. /F	12.13	3.5/12	4/ADOII 5/6 hybrid	Ok	10	Sportsman
42. /F	12.14	8/25	4/4 AMO	Ok	9	
43. /F	01.16	5/22	4/ADOII 6/5	Ok, TI(+)	6	TI(+)

C. Residual PostSurgery VSD

No./Sex	Date of the proc.	Age, years/weight, kg prev surg, age year	VSD (mm) diam/ device	Early results/ complications	F-up (years)	Late result/ Comment
44. /M	10.1 1	2.5/13 TOF (2 years)	3.4/ADOII 6/6	Ok, mild rs, trivial AI	12	SVT (3 years), Carto ablation (3,5 years)
45. /M	03.1 5	11/42 Rastelli (5 years)	6/PDA HeartR 8	Ok	8	Post surg AI(+), PI(++), 20 mm G in RVOT
46. /M	04.1 5	1.5/11 pmVSD (0.4 years)	3/PDA HeartR 4	Small rs, TI(+) RBBB	7	RBBB
47. /M	06.1 5	7.5/24 pmVSD (0.5 year)	2.8/PDA HeartR 6	Ok	7	TI(++)
48. /M	08.1 5	1.8/8.7 TOF (0.8 year)	2.5 gerbode/ADOIIA S 5/2	Ok	7	
49. /M	02.1 6	31/100 TOF (2 years)	3/PDA HeartR 6	Ok	6	

50. /M	03.1 6	1.3/9.4 TOF (0.5 year)	3.2/ADOIIAS 5/2	Ok	7	
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Abbreviations: ADOII, Amplatzer Duct Occluder type II; ADOII AS, Amplatzer Duct Occluder type II Additional Size; AI, aortic insufficiency; AMO, Amplatzer muscular ventricular septal occluder; AsVSO, asymmetrical perimembranous ventricular septal occluder; cavb, complete atrioventricular block; CMP, restrictive cardiomyopathy; date of proc., month and year of the procedure Down S, trisomia 21; embol, embolization of the device; epi ADHD, epilepsy, ADHD syndrome; ExV, ventricular extrasystolia; F, female; gerbode, gerbode like VSD; HF, heart failure; hybrid, hybrid procedure; IVS, interventricular septum; M, male; multi, multiple VSD; OHT, qualified for Ortotopic Heart Transplantation; Ok, successful procedure; PDA COF, ADOI like Chinese occluder Cardio-O-Fix; PDA HeartR, ADOI like Chinese occlude HeartR; Rastelli, residual VSD post Rastelli surgery; RBBB, right bundle branch block; retrived tc, device retrived transcatheterly; rs, residual shunt; sss, sick sinus syndrome; SVT, supraventricular tachycardia; TI, tricuspid insufficiency; TOF, tetralogy of Fallot; y, years; VF, ventricular fibrillation; VSD, ventricular septal defect

^aPt with complex congenital heart defect, embolization during procedure, after percutaneous procedure send to surgery operation m. Rastelli and surgical retrieve of the device from aorta. ^bOblique trajectory of VSD — anatomy confirmed during surgery. ^cTI++++ — massive TI 3 days after proc., MVSO cut TV, surgical removal of the device, VSD closure and TV reconstruction