**SUPPLEMENTARY TABLES.**

**Supplementary Table 1-** Characteristics of selected studies for the comparison of Figulla vs Amplatzer atrial closure device

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Author, country, year, ref** | **Journal** | **Design** | **Type of study** | **Nº of centers** | **Inclusion period** | **N** | **Follow-up** |
| Aysenur Pac, Turkey, 2009 [6] | Journal of Interventional Cardiology | National | Comparative | 1 | December 2005 to February 2009 | 75 | yes |
| Ardan M. Saguner, Switzerland, 2010 [7] | Catheter Cardiovascular Intervention | National | Single center case control | 1 |  | 40 | yes |
| A. Oto, Turkey, 2011 [8] | Echocardiography | National registry | Prospective | 1 | October 2005 to June 2010 | 139 | yes |
| U. Canpolat, Turkey, 2012 [9] | International Journal of Cardiology | National registry | Observational | 1 | November 2005 to December 2011 | 161 | yes |
| Kudret Aytemir, Turkey, 2013 [10] | Congenital Heart Disease | National | Retrospective | 1 | January 2002 and May 2012 | 414 | yes |
| Antonio Vitarelli, Italy, 2014 [11] | European Heart Journal | National | Prospective | 1 |  | 123 | yes |
| Supaporn Roymanee, Thailand, 2015 [12] | Pediatric  Cardiology | National | Retrospective | 1 | January 2003 and June 2012 | 149 | yes |
| François Godart, France, 2015 [13] | Archives Cardiovascular Disease | National | Retrospective | 1 | September 2009 to December 2012 | 131 | yes |
| Filippo Scalise, Italy, 2016 [14] | Journal of Interventional Cardiology | National | Retrospective | 1 | 2004 to 2012 | 101 | yes |
| Yifat Nir-David, Israel, 2017 [15] | Israel medical association Journal | National | Retrospective | 1 | May 2006 to July 2013 | 110 | yes |
| Daniela Trabattoni, Italy, 2017 [16] | EuroIntervention | National registry | Observational | 2 | June 2007 to October 2014 | 406 | yes |

**Supplemental table 2.** Outcomes according to the use of ASO or FSO devices and the indication (PFO vs. ostium secundum ASD)

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables** | **Amplatzer**  N=870/1749 (49.74%) | **Figulla**  N=873/1749 (50.26%) | **p value** |
| Age (years) **PFO** n=808 | 48.51±6.44 | 48.78±5.24 | 0.68 |
| Age (years) **ASD** n=431 | 25.64±4.82 | 23.74±5.64 | 0.96 |
| Device size (mm) **PFO** n=136 | 26.89± 1.32 | 24.50±0.23 | **<0.001** |
| Device size (mm) **ASD** n=634 | 21.65±3.32 | 22.09±4.22 | 0.14 |
| Device embolization **PFO** n=721 | 1/350 (0.28%) | 1/371(0.28%) | 0.999 |
| Device embolization **ASD** n=941 | 3/474 (0.63%) | 3/467 (0.64%) | 0.999 |
| Vascular complication **PFO** n=406 | 4/179 (2.23%) | 2/227 (0.88%) | 0.412 |
| Vascular complication **ASD** n=524 | 3/264 (1.14%) | 5/260 (1.92%) | 0.502 |
| Coronary embolism **PFO** n=101 | 1/52 (1.92%) | 0/49 (0.00%) | 0.999 |
| Coronary embolism **ASD** n=300 | 3/150 (2.00%) | 4/150 (2.67%) | 0.999 |
| Death **PFO** n=542 | 0/256 (0.00%) | 0/286 (0.00%) | 0.999 |
| Death **ASD** n=449 | 1/222 (0.45%) | 0/227 (0.00%) | 0.494 |
| Residual shunt 12 months **PFO** n=681 | 2/330 (0.61%) | 1/351 (0.28%) | 0.613 |
| Residual shunt 12 months **ASD** n=616 | 12/342 (3.51%) | 5/274 (1.82%) | 0.205 |
| Supraventricular **PFO** n=545 | 30/253 (11.86%) | 21/292 (7.19%) | **0.062** |
| Supraventricular **ASD** n=300 | 0/150 (0.00%) | 0/150 (0.00%) | 0.999 |
| Atrial Fibrillation **PFO** n=547 | 7/251(2.79%) | 3/296(1.01%) | 0.198 |
| Atrial Fibrillation **ASD** n=300 | 0/150 (0.00%) | 0/150 (0.00%) | 0.999 |

ASD: Atrial septal defect; ASO: Amplatzer device; FSO: Figulla Flex device; PFO: Patent foramen ovale.

**SUPPLEMENTAL FIGURES.**

**Supplemental figure 1.** Differences in fluoroscopy time according to the use of Amplazter of Figulla devices for patients with patent foramen ovale vs. ostium secundum atrial septal defect.

**Supplmental figure 2.** Differences in procedural success rate according to the use of Amplazter of Figulla devices for patients with patent foramen ovale vs. ostium secundum atrial septal defect.

**Supplementary figure 1.**

****

**Supplementary figure 2.**

****