García-Gómez M J, et al. The novel balloon-expandable Myval transcatheter heart valve: systematic review of aortic, mitral, tricuspid and pulmonary indications. Rev Esp Cardiol. 2024

SUPPLEMENTARY DATA

Table 1 of the supplementary data

Bibliographic sources and type of article

Article	Type of article	Source
Aortic valve disease		
Aortic stenosis		
First-in-human evaluation of a novel balloon-expandable transcatheter heart	Multicenter registry (N =	PubMed
valve in patients with severe symptomatic native aortic stenosis: the MyVal-1	30)	
study		
Evaluation of Balloon Expandable Transcatheter Heart Valve in the	Multicenter registry (N =	Google Scholar
Treatment of Severe Symptomatic Native Aortic Stenosis: The First-inhuman	100)	
MyVal-1 Study		
Next-generation balloon-expandable Myval transcatheter heart valve in low-	Multicenter registry (N =	PubMed
risk aprile stenosis patients	100)	DubMad
Safety and performance parameters of the Myval transcatheter aortic valve	I wo center registry (N =	Publyled
Balloon avaandable Muval transcatheter aertic value implantation. First	Scientific letter $(N - 2)$	PubMod
experience in Spain	Scientific letter (N = 2)	Publivieu
Short-term outcome after transcatheter agric valve replacement with a	Single-center registry (N -	PubMed
novel balloon-expandable valve	120)	Tubivieu
Single center experience with the balloon-expandable Myval transcatheter	Single-center registry (N =	PubMed
aortic valve system with the first 100 patients: 30-day and 1-year follow-up	100)	1 ubineu
First experiences with the balloon-expandable Myval® transcatheter aortic	Scientific letter (N = 9)	PubMed
valve from Turkey		
First experiences with a new balloon-expandable Myval transcatheter aortic	Single-center registry (N =	PubMed
valve: a preliminary study	25)	
Early Outcomes of a Next-Generation Balloon-Expandable Transcatheter	Single-center registry (N =	Google Scholar
Heart Valve - The Myval System: A Single-Center Experience From Serbia	13)	
Performance of the 32mm Myval transcatheter heart valve for treatment of	Multicenter registry (N =	PubMed
aortic stenosis in patients with extremely large aortic annuli in real-world	10)	
scenario: First global, multicenter experience		
MSCT characteristics of patients with extra-large aortic annulus treated with	Multicenter registry (N =	Google Scholar
new generation balloon expandable TAVR for aortic stenosis: international,	276)	
multi-center study		
Transcatheter aortic valve implantation via the left axillary artery route in a	Case report (N = 1)	PubMed
patient with a permanent pacemaker: The first transaxillary artery route		
Transcaratid transcatheter agric value implantation with a neural balloon	C_{2} constant (N = 1)	BubMod
expandable Mwal® THV under the local anesthesia	Case report (N = 1)	Publivieu
Transcaval agentic valve implantation in a patient with Larsen syndrome:	Case report (N = 1)	PubMed
technical and anesthetic challenges		Tubivieu
Quantitative Angiographic Assessment of Aortic Regurgitation after	Single-center registry (N =	PubMed
Transcatheter Aortic Valve Implantation among Three Balloon-Expandable	108)	- donied
Valves		
Quantitative Angiographic Assessment of Aortic Regurgitation Following 11	Multicenter registry (N =	Google Scholar
TAVR Devices: An Update of a Multicenter Pooled Analysis	108)	0
Angiographic quantification of aortic regurgitation following myval octacor	Multicenter registry (N =	PubMed
implantation; independent core lab adjudication	125)	
Safety and effectiveness of the novel Myval Octacor transcatheter heart	Multicenter registry (N =	PubMed
valve in severe, symptomatic aortic valve stenosis - A real-world Indian	123)	
experience (The OCTACOR India Study)		
Feasibility of precise commissural and coronary alignment with balloon-	Single-center registry (N =	PubMed
expandable TAVI	10)	
Neocommissural/Coronary Alignment With a Novel Balloon Expandable	Scientific letter (N = 32)	PubMed
I ranscatneter Aortic Valve: First-in-Human Experience		
Early clinical and haemodynamic matched comparison of balloon-expandable	Multicenter registry (N =	PubMed
Valves	41b)	DubAted
Clinical Comparison of a Novel Balloon-Expandable Versus a Self-Expanding	Single-center registry (N =	PUDIVIED
Valve Stenesis: The EVAL Periotic	301	
valve stellosis. The EVAL registry	Single-conter registry (N -	PubMod
expanding Evolut R in severe partic value stangers	58)	FUDIVIEU
expanding Evolutin in severe adduct valve stellosis	50/	

García-Gómez M J, et al. The novel balloon-expandable Myval transcatheter heart valve: systematic review of aortic, mitral, tricuspid and pulmonary indications. Rev Esp Cardiol. 2024

Assessing the Novel Myval Balloon-Expandable Valve with the Evolut Valve: A	Single-center registry (N =	PubMed
Myval versus alternative balloon- and self-expandable transcatheter heart	Multicenter registry (N =	PubMed
valves: A central core lab analysis of conduction disturbances	135)	
Operator preference and determinants of size selection when additional intermediate-size aortic transcatheter heart valves are made available	Multicenter registry (N = 1115)	PubMed
Balloon-Expandable TAVR Bioprostheses: Area or Perimeter Sizing? A	Single-center registry (N =	PubMed
Prospective Pilot Study	60)	
LANDMARK comparison of early outcomes of newer-generation Myval	Randomized clinical trial	PubMed
transcatheter heart valve series with contemporary valves (Sapien and	(N = 768)	
Evolut) in real-world individuals with severe symptomatic native aortic		
Stehosis: a randomised non-interiority trial	Case report (N = 1)	PubMed
Novel Balloon-Expandable Myval Octacor		Tublicu
Safety and Efficacy of Myval Implantation in Patients with Severe Bicuspid	Multicenter registry (N =	PubMed
Aortic Valve Stenosis-A Multicenter Real-World Experience	68)	
One-Year Outcomes after Myval Implantation in Patients with Bicuspid Aortic	Multicenter registry (N =	PubMed
Valve Stenosis-A Multicentre Real-World Experience	62)	
I ranscatheter Aortic Valve Implantation for Severe Bicuspid Aortic Stenosis -	I wo center registry (N =	PubMed
2 Teal Follow up Experience From India	21) Multicenter registry (N =	PubMed
bicuspid aortic stenosis: the TRITON study	122)	Tublicu
Case report: Transcatheter aortic valve replacement in a large bicuspid	Case series (N = 3)	PubMed
anatomy using the XL-Myval 32 mm		
Novel 35-mm Balloon-Expandable Transcatheter Aortic Valve Replacement	Case report (N = 1)	PubMed
Aortic regurgitation		
Balloon-Expandable Performance in Inoperable Patients With Pure Aortic	Abstract (N = 40)	Google Scholar
Reguigitation of a Native Valve. A subanalysis from the PANTHEON		
Transcatheter aortic valve implantation for aortic insufficiency in patients	Case report (N = 1)	PubMed
with left ventricular assistance		
Transcatheter aortic valve implantation for aortic regurgitation in HeartMate	Case report (N = 1)	PubMed
Il supported patient using Myval THV: a case report		
Clinical outcomes of TAVI with the Myval balloon-expandable valve for non-	Multicenter registry (N =	PubMed
calcified aortic regurgitation	113)	
Trans-catheter valve-in-valve implantation with a novel balloon expandable	Case series (N = 4)	PubMed
device in patients with bioprosthetic heart valve failure: A case series		i ubiiicu
MyVal and mini-chimney stenting to prevent coronary obstruction during full	Case report (N = 1)	PubMed
root stent-less aortic valve-in-valve procedure		
First experience in Turkey with Meril's MyValTM transcatheter aortic valve-in	Case report (N = 1)	PubMed
Valve replacement for degenerated PERCEVAL ^{IM} bioprotnesis valve	C_{acc} report $(N = 1)$	BubMad
Obstruction	case report (N = 1)	Publivieu
First-in-man Valve-in-Valve with the new balloon-expandable Myval	Case report (N = 1)	PubMed
transcatheter heart valve in a failed sutureless Perceval bioprosthesis		
Intravascular Ultrasound for Valve-in-Valve Guidance During Repeat	Case report (N = 1)	PubMed
Transcatheter Aortic Valve Replacement		
Case report: A complex case of valve-in-valve TAVI and left bundle branch	Case report (N = 1)	PubMed
dissection and low election fraction		
In-Series Transcatheter Aortic Valve Replacement-in-Transcatheter Aortic	Case report (N = 1)	PubMed
Valve Replacement: ACURATE neo Transcatheter Heart Valve Degeneration	···· · · · · · · · · · · · · · · · · ·	
Successfully Managed with Myval, Avoiding Coronary Flow Obstruction—A		
Case Report		
Transcatheter valve-in-valve or valve-in-ring implantation with a novel	Multicenter registry (N =	PubMed
balloon-expandable device in patients with bioprosthetic left side heart	33)	
Left Ventricular Assist Device Implantation combined with direct transaortic	Case report (N = 1)	Google Scholar
transcatheter valve-in-annular stent implantation after rescue mechanical		
Bentall procedure, A case report		
Case report: A novel surgical technique for rapid valve-in-ring implantation	Case report (N = 1)	Google Scholar
into the native aortic annulus during left ventricular assist device		
Implantation		
Mitral valve disease		

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Clinical and haemodynamic outcomes of patients who underwent	Abstract (N = 10)	PCRonline
Transcatheter Value in Value Implantation with a Nevel Palloon Expandable	C_{250} corios $(N = 1)$	BubMod
Device in Patients with Bioprosthetic Heart Valve Failure: A Case Series	Case series $(N = 1)$	Publyled
Transcatheter mitral valve-in-valve replacement transeptally using a novel balloon-expandable device	Case report (N = 1)	PubMed
Takotsubo cardiomyopathy complicating transcatheter mitral valve-in-valve	Case report (N = 1)	PubMed
replacement		
Transcatheter mitral valve replacement (TMVR) for degenerated mitral valve	Case series (N = 3)	Google Scholar
bioprosthesis - A case series		
Transcatheter Mitral Valve-in-Valve Implantation with the Balloon-	Multicenter registry (N =	PubMed
Expandable Myval Device	11) Civels and a second state (N	D. I. M. J.
Clinical Outcomes Following Transcatheter Mitral Valve-In-Valve	Single-center registry (N =	Publvled
Replacement Using a Meril Myval Transcatheter Heart Valve	20)	Dublard
TIP-to-base LAMPOON to prevent left ventricular outflow tract obstruction in	Case report ($N = 1$)	Publivled
a valve-in-fing transcattleter mitral valve replacement. First LAWPOON		
implantation		
Transcatheter value in-value or value in-ring implantation with a novel	Multicenter registry (N -	PubMed
halloon-expandable device in natients with bioprosthetic left side beart	64)	FUDIVIEU
valves failure: 1-year follow-up from a multicenter experience	04)	
Tricuspid valve disease		
Transcatheter Tricuspid Valve-in-Valve Procedure—An Illustrative Case	Case report (N = 1)	PubMed
Report and Review		i ubiricu
Transcatheter Tricuspid Valve-in-Valve Implantation with a Novel Balloon	Case report (N = 1)	PubMed
Expandable Myval THV		
Case report: Transcatheter tricuspid valve-in-valve implantation using novel	Case series (N = 5)	PubMed
balloon-expandable aortic valve with 1 year follow-up		
Transcatheter valve-in-valve implantation in failing tricuspid bioprosthesis of	Case report (N = 1)	Google Scholar
a young adult with tetralogy of Fallot		
Transcatheter treatment tricuspid regurgitation by valve-in-ring implantation	Case report (N = 1)	PubMed
with a novel balloon-expandable Myval® THV		
Two case reports of transcatheter valve-in-valve implantation of Sapien 3	Case report (N = 1)	PubMed
and MyVal in degenerated biological tricuspid prosthesis valves		
Pulmonary valve disease		
First transcatheter pulmonary valve implantation - An Indian made valve	Case report (N = 1)	Google Scholar
Early multicenter experience of a new balloon expandable MyVal	Case series (N = 7)	PubMed
transcatheter heart valve in dysfunctional stenosed right ventricular outflow		
tract conduits		
First experiences with Myval Transcatheter Heart Valve System in the	Case series (N = 9)	PubMed
treatment of severe pulmonary regurgitation in native right ventricular		
outflow tract and conduit		
Pulmonary percutaneous valve implantation in large native right ventricular	Case report (N = 1)	PubMed
Outflow tract with 32 mm Myval transcatheter heart valve		Dublard
Pulmonary valve replacement in a large and tortuous right ventricle outflow	Case report ($N = 1$)	Publivled
tachnical considerations: a case report		
Transcathotor Dulmonany Valvo Poplacomont With 22 mm Palloon	Editorial commont (N = 1)	PubMod
Financial Functionally valve replacement with 52-11111 Dalibuilt-		
Choosing an appropriate size valve for transcatheter nulmonary valve	Case series (N - 3)	PubMed
implantation in a native right ventricle outflow tract		
Multicenter Experience for Early and Mid-Term Outcome of MvVal	Multicenter registry (N =	PubMed
Transcatheter Pulmonary Valve Implantation	53)	
		1

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Figure 1 of the supplementary data. Metanalysis evaluating main baseline characteristics of patients undergoing Myval implantation for the treatment of

native AS. A: age. B: sex. C: STS score. D: aortic valve area. E: mean gradient. F: left ventricular ejection fraction.



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Cambiar "Effect Size" a "Effect size"

Cambiar "Random-effects" a "Random effects"

Cambiar "N female" a "No. female"

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VIDEOS OF THE SUPPLEMENTARY DATA - FOOTERS

Video 1 of the supplementary data. Detail of Myval implantation in a bicuspid aortic stenosis.

Video 2 of the supplementary data. Detail of Myval implantation for a pure regurgitation case

secondary to Heartmate, guided by transesophageal echocardiography.

Video 3 of the supplementary data. Detail of BASILICA procedure during valve-in-valve (Myval within

Trifecta) assisted with intracardiac echocardiography.