

This Summary of Safety and Clinical Performance (SSCP) is intended to provide public access to an updated summary of the main aspects of the safety and clinical performance of the device.

The SSCP is not intended to replace the Instructions for Use as the main document to ensure the safe use of the device, nor is it intended to provide diagnostic or therapeutic suggestions to intended users or patients.

The following information is intended for users/healthcare professionals.

1. Device identification	and general information
Device trade name(s)	<u>NuMED Sizing Family</u> PTS PTS-X
Model Number	<u>NuMED Sizing Family – Model 1200</u> PTS – Model 360 PTS-X – Model 360X
Manufacturer's name and address	NuMED, Inc. 2880 Main Street Hopkinton, NY 12965 USA
Manufacturer's single registration number (SRN)	US-MF-000010948
Basic UDI-DI	08877141200SE
Medical device nomenclature description / text	EMDN – C0104020103 - VASCULAR OCCLUSION CATHETERS
Class of device	III
Year when first certificate (CE) was issued	2001 – PTS 2004 – PTS-X
Authorised Representative (AR)	G. van Wageningen B.V. Hallenweg 40, 5683 CT Best, The Netherlands
AR SRN	NL-AR-000010437
Notified Body	SGS Belgium NV
Notified Body ID number	1639

2. Intended use of the d	levice
Indications for use	Recommended for use in those patients with cardiovascular defects wherein accurate measurement of the defect is important to select the appropriately sized occluder device.
Contraindications and/or limitations	There are no contraindications listed for this device and indication.



3. Device Description	
Description of the device	The Sizing Catheters are coaxial catheters for use in those patients with cardiovascular defects wherein accurate measurement of the defect is important to select the appropriately sized occluder device. The outer and inner body are made of polyamide tubing. The X-line version of the catheter has an inner tubing that is comprised of a multi-layer extrusion of polyamide that surrounds a braid of 304 LV Stainless Steel. The catheter features a proximal end bifurcate with two distinct luminal passages. The inflation lumen terminates into a distally mounted balloon. This balloon is of the non-compliant variety and is designed to insert through the smallest possible introducer. The through lumen terminates at the tip of the catheter and will accept the passage of the appropriate guidewire. All catheter sizes with the exception of the 1cm balloon length will have four radiopaque platinum marker bands, to aid during placement; two under the balloon shoulders and two at the balloon center, spaced at 10mm (as measured from leading edge to leading edge).
	The balloon is designed to inflate to the diameter and length listed on the label at a specific pressure. Thus, it is recommended that the device be used in conjunction with a mechanism to monitor pressure, an inflation device with pressure gauge. This device is also designed to be used with an appropriately sized introducer and guidewire.
	The balloon size is $\pm$ 10 % at the Rated Burst Pressure (RBP) and the RBP is not to be exceeded.
	The catheters are supplied sterile, by ethylene oxide gas, and are intended for single use only. The catheters are invasive and intended for transient use (continuous use of $<60$ minutes) on patients.
Reference to previous generation(s) or variants	N/A
Accessories which are intended to be used in combination with the device	There are no accessories that are intended to be used with this device.
Description of any other devices and products which are intended to be used in combination with the device	This device is designed to be used with a guidewire, introducer, and an inflation device with pressure gauge.

4. Risks and Warning	
	Side-effects reported in the literature are inherent and common to all percutaneous sizing procedures and/or intravascular catheter procedures and are not specifically associated with the Sizing Catheter.
	All risks identified in the clinical literature as well as the risks detected from the Post Market Surveillance or from clinical data have been considered by the risk management process.
Devidents' for and	All significant risks were considered, mitigated as far as possible (AFAP), and are acceptable in regard to the clinical benefit of the device.
Residual risks and undesirable effects	POTENTIAL COMPLICATIONS
	Potential balloon separation following balloon rupture or abuse and the subsequent need to use a snare or other medical interventional techniques to retrieve the pieces.
	<b>NOTE:</b> There have been infrequent reports of larger diameter balloons bursting circumferentially, possibly due to a combination of tight focal strictures in large vessels. In <u>any</u> instance of a balloon rupture while in use, it is recommended that a sheath be placed over the ruptured balloon prior to withdrawal through the entry site. This can be accomplished by cutting off the proximal end of the catheter and slipping an appropriately sized sheath over the catheter into the entry site. For specific technique, refer to:

	NuMED
	Summary of Safety and Clinical Performance SSCP – Sizing
	Tegtmeyer, Charles J., M.D. & Bezirdijan Diran R., M.D. "Removing the Stuck, Ruptured Angioplasty Balloon Catheter." <u>Radiology</u> , Volume 139, 231-232, April 1981.
	<ul> <li>Potential complications &amp; adverse effects associated with device use and indication include:</li> <li>Trauma / Overstretching of the Septum</li> <li>Device Erosion</li> </ul>
	Device Embolization     Access Site Complications
	The following Warnings and Precautions have been identified and are called out in the Instruction for Use:
	<ul> <li>WARNINGS</li> <li>CAUTION: Do not exceed the RBP. An inflation device with pressure gauge is recommended to monitor pressure. Pressure in excess of the RBP can cause balloon rupture and potential inability to withdraw the catheter through the introducer sheath.</li> <li>Use only appropriate balloon inflation medium. Do not use air or gaseous medium to inflate the balloon.</li> <li>Do not advance the guidewire, balloon dilatation catheter, or any other component if resistance is met, without first determining the cause and taking remedial action.</li> <li>This catheter is not recommended for pressure measurement or fluid injection.</li> <li>Do not remove the guidewire from the catheter at any time during the procedure.</li> <li>This device is intended for single use only. Do not resterilize and/or reuse it, as this can potentially result in compromised device performance and increased risk of cross- contamination.</li> </ul>
Warning and Precautions	<ul> <li>PRECAUTIONS <ul> <li>One should always select a diameter larger than the unstretched defect diameter, i.e., TEE ASD size 12mm - select 20 or 25 mm PTS.</li> <li>Caution should be used when inflating the balloon, over inflation can cause trauma and overstretching of the septum.</li> <li>Sizing procedures should be conducted under fluoroscopic guidance with appropriate x-ray equipment. (PTS-X only).</li> <li>Sizing procedures should be conducted under fluoroscopic/MRI guidance with appropriate x-ray equipment. (PTS only)</li> <li>Guidewires are delicate instruments. Care should be exercised while handling to help prevent the possibility of breakage.</li> <li>Careful attention must be paid to the maintenance of tight catheter connections and aspiration before proceeding to avoid air introduction into the system.</li> <li>Under no circumstances should be identified with fluoroscopy/MRI and action taken to remedy the problem.</li> <li>If resistance is felt upon removal, then the balloon, guidewire, and the sheath should be removed together as a unit, particularly if balloon rupture or leakage is known or suspected. This may be</li> </ul> </li> </ul>
	<ul> <li>accomplished by firmly grasping the balloon catheter and sheath as a unit and withdrawing both together, using a gentle twisting motion combined with traction.</li> <li>Before removing catheter from sheath it is very important that the balloon is completely deflated.</li> <li>Proper functioning of the catheter depends on its integrity. Care should be used when handling the catheter. Damage may result from kinking, stretching, or forceful wiping of the catheter.</li> </ul>



SSCP – Sizing								
of safety, i	(FSCA ng FSN) if							izing Catheters.
5 Summe	arv of clinical e	valuation	and nost-market cli	nical follow-up (PMCF)				
Summary NuMED ha	of clinical data as elected not to	a related to use the c	to equivalent device: linical data from an ec	quivalent (clinical, technical, and biol ta will be considered as similar devic		charac	eteristics	) device(s). In
			nducted investigation ical investigations on					
Summary	of clinical data	a from oth	<u>ier sources:</u>					
	occlude N for cl Method: Open,	estigation of losure of PI prospective		ty and safety of the Occlutech Figulla® s center clinical study	ingle la	yer-PF	0	
	Level of Evidence	Study N	dy Method/Design Question Applied			ord LO	E	Population:
	Oper nonr		rospective, lomized multicenter study	Treatment Benefit, Treatment Harms (Common)	2011 1 2		4 5	patients with PFO (7.8 ±2.5 mm
	Suitability	ty Relevant Data				Gradin	ıg	defect size mean) All patients suffered
	Device		25 mm PTS NuMED I anatomy of the defect	inc. to determine the size and the	D1	D2	D3	from cryptogenic
1. Krizanic et al. (2008)	Krizanic et al.		The right femoral vein was punctured under local anesthesia and a soft-tipped 0.035" wire was inserted and advanced through the PFO, and finally positioned within a left-sided pulmonary vein. PTS balloon sizing was used to determine the size and anatomy of the defect before implementation of PFO-		A1	A2	A3	stroke (the origin remains unknown). Sampling:
	Patient		P1 (37 patients with P)	occluder device. Under fluoroscopy and TEE. P1 (37 patients with PFO; mean age 57 yo (18-80); M 18, F		P2	Р3	n= 36
	Report			afficient information to be able to ad objective assessment.		R2	R3	Mean Age: 50 years old (yo) (18 – 80)
		Suitability Grade (Range 4-12)				4		<b>Sex:</b> M - 18
	Data Contribu	tion	Relevant Data			Gradir	ng	F - 17
	Outcomes/Enc		The reported outcome	measures (implantation ) indirectly reflect the intended vice.	Yes		No 2	
	Follow-up		The duration of follow-up (up to 180 days after the procedure) is long enough to assess whether duration of treatment benefits/harms and identify complications.		Yes	1 1	No 2	

NuMED
<b>Summary of Safety and Clinical Performance</b>
SSCP – Sizing

-		No statistical analysis of the data has been provided.Yes 1The magnitude of the treatment benefit observed was clinicallyYes 1			Yes 1	No 2
Similar significance s		significant (implantation success).				
			Data Contribution G	ade (Range 4-8)		5
verall S&P Annra	isal Dis	position and Weighting	3			
S&P Grade	LOE	(3) + Suitability $(4)$ +	Disposition and	Accepted and P	ivotal 9-	12
(Range 9-25)		Contribution $(5) = 12$	Weighting (select)	Accepted but no	ot Pivotal	
				Excluded, 22-2	5	
elevant S&P Resu	lte					
Criteria	115	Results				P value
Safety data		Perioperatively:				N/A
		No major in-hospital-				
		occlude dislodgement				27/4
		Comparison to Ampla below	azer® PFO occluder d	evice: See Table ]		N/A
Performance data –	After	One patient had transi	ent atrial fibrillation.	which terminated		N/A
implantation		medically after 12 h.				
Performance data –		TEE studies in the ren				N/A
days after procedur	e	to further participate)		nt in 8.6% (3/35)	and a	
Performance data –	180	left-to-right shunt in 2 One patient with sever		t disago and as-		N/A
days after procedur		carotic stenosis reveal			C	1N/A
		cardioembolic origin o				
		Complete closure was	achieved in 88.2% of			
Comparison to		Table 1 Comparison Amplatzer vs Figulla PFO Occluder N				N/A
Amplatzer® PFO occluder device		No.	Amplatzer PFO	Figulla PFO		
			occluder $n = 69$	occluder $n =$	36	
		Implantation success	100%	100%		
		Periinterventional	10070	100%		
		Complications				
		(a) minor, n % Trans. ST-elevation	1 (1.5%)	1 Atrial fibrill		
		(b) major, n %	1 (1.5%) 0	1 Grain bleed	ing	
		TIA	0	0		
		Devicedislodgement	0	0		
		Pericardial effusion Arrosion of aorta	0 0	0		
		Death	0	0		
			-	-		
Benefits/claims dat	a	Authors mentioned that they routinely used the sizing balloon for				N/A
		definition of the defect size. TEE studies could not exactly				
		determine the defect size. Implantation by monitoring with ICE is an alternative method which was not routinely used. They generally				
		recommend ICE or TH				
		clinical study. For gen				
		assessment of PFOs en				
		morphology and aids i				
		tunnelisation using the	e same balloon facilita	tes the uncomplication	ated	
		trancatheter closure of				
Strengths		Comparison of results	with a reference device	e (Amplatzer PFO	)	N/A
Weaknesses/		occlude $(n = 69)$ ).	ats included			N/A
Potential bias		Low number of subject Study does not direct		formance of the s	izing	1N/A
otennar olas			ned for assessment of		izing	

NUMED	∃	Summary of Safety	NuMED y and Clinical Performan CP – Sizing	ce					
	N/A – Articles does	s not contribute to SOA.							
	and useful for PFO the left atrial disc.	closure despite a 50% reduction	Figulla® PFO N single layer device appea of the meshwire, no distal hub and an imp	proved	flexibi	lity of			
	<b>Device used:</b> 25 mm NuMED Inc. to determine the size and the anatomy of the defect; the correct position of the PFO-occluder was confirmed by means of fluoroscopy and TEE								
	Safety & Perform	ance							
	focal neurologic ev		ons performed to determine causes of sign enter who underwent transcatheter PFO cl						
	Method: Retrospec	ctive clinical study							
	with follow-up info		) for a total of 438 patient-years after clos	ure (19	99/216 j	patients			
	Appraisal Level of	Study Method/Design	Question Applied	Ov	ford LC	ЭE			
	Evidence			201					
		Retrospective clinical study	Treatment Benefit, Treatment Harms (Common)	1	2 <b>3</b>	4 5			
	Suitability	Relevant Data			Gradin	g			
	Device	PTS Sizing balloon NuMED I	nc.;	D1	D2	D3	Population		
2. Kutty et al. (2008)	Application	A complete right-sided hemod angiography was performed to guidewire was positioned in the venous catheter advanced thro PTS Sizing balloon was advant incompletely inflated (<1 atm) balloon and elimination of any identified. The balloon was no of inadvertently enlarging the was measured angiography an Under general anesthesia and 7 sedation.	A1	A2	A3	patients wit PFO (11 mm (4 - 24) stretch diameter) Sampling: n= 216 Mean Age: 50 yo			
	Patient	216 patients with PFO; 50 yo		P1	P2	P3	(19 – 77)		
	Report	The article contains sufficient rational and objective assessm	information to be able to undertake a	R1	R2	R3	Sex:		
			Suitability Grade (Range 4-12)		4		M - 107 F - 109		
	Data	Relevant Data		Grading					
	Contribution Outcomes/Endp oints	The reported outcome measure indirectly reflect the intended	es (implantation success/complications) performance of the device.	Yes	1	No 2			
	Follow-up	The duration of follow-up (me whether duration of treatment complications.	ean 2.1 years) is appropriate to assess benefits/harms and identify	Yes	1	No 2			
	Statistical	Statistical analysis of the data	has been provided for safety data and is	Yes	1 ]	No 2			
	analysis Clinical significance	appropriate. The magnitude of the treatmer significant (implantation succe	nt benefit observed was clinically ess).	Yes	1	No 2			
			Data Contribution Grade (Range 4-8)						

	∃ Sī	ummary of Sa	NuMED afety and Clinical I SSCP – Sizing	Performance		
	(Range 9-25) +	(3) + Suitability (4) Contribution (4) = <b>11</b>	Disposition and Weighting (select)	Accepted and Pivotal 9 Accepted but not Pivot Excluded, 22-25		
	Relevant S&P Results:				D	
	Criteria Safety data - Main resu	ults 40.2 months (mean 2.1 ye recurrent stro transient isch	ents had a focal neurologic even after PFO closure over 438 per ears, range 1 month to 7.1 years okes, 2 likely directly device re nemic attack (TIA) and 6 patier unrelated to the device.	rson-years of follow-up s). There were 4 lated. Ten patients had	P value N/A	
	Safety data - Event rate recurrent strokes		ear or 9.1 per 1,000 person-yea	rs (95% CI for	N/A	
	Safety data - Combined event-rate for stroke/transient ischem attack (TIA)	ed 3.42% per ye	ear or 34.2 per 1,000 person-ye	ars (95% CI for	N/A	
	Safety data - Comparis with other studies	son occlusion of evaluated rec	The recurrent stroke rate found in this study after CardioSEAL occlusion of PFO is comparable to rates from studies that evaluated recurrence of stroke and TIA in patients with PFO and cryptogenic stroke placed on various regimen of medical prophylaxis.       N/A         100%       N/A         High number of subjects included (216) FU of 2.1 years (mean).       N/A         Study does not directly assess safety and performance of the sizing balloon but was designed for assessment of the PFO occlude       N/A			
	Performance data - Successful implantatio	100%				
	Benefits/claims data	None				
	Strengths					
	Weaknesses/ Potential bias	balloon but v			N/A	
	Potential bias <u>State of the Art</u> N/A – Articles does not <u>Conclusions of the autl</u> procedure with minimal Recurrence rate of crypt from ongoing randomize to select the best treatme <u>Device used:</u> Sizing bal distinct indentation in th was not inflated fully to was measured angiograp	balloon but v device. contribute to SOA. hors: In conclusion, t immediate morbidity togenic FNE compare ed trials of transcather ent for individual patient lloon NuMED Inc.; ac ne balloon abd elimina a void the possibility phy and by echocardic	vas designed for assessment of ranscatheter PFO occlusion car . Patients may have multiple po s favorably with reports of mec ter PFO closure versus medical ents lvanced over the guidewire and tion of any shunting by color I of inadvertently enlarging the c	the PFO occlude to be accomplished as an obssible causes of recurrent lical management. Analy management may impro-	outpatient nt FNE. /sis of results ove our ability <1 atm) until a The balloon	
	Potential bias State of the Art N/A – Articles does not Conclusions of the auth procedure with minimal Recurrence rate of crypt from ongoing randomize to select the best treatme Device used: Sizing bal distinct indentation in th was not inflated fully to was measured angiograp Safety & Performance Objective: This study so mediated PFO closure to Method: Retrospective Follow-up: 12 months of	balloon but v device.	vas designed for assessment of ranscatheter PFO occlusion car . Patients may have multiple po s favorably with reports of mec ter PFO closure versus medical ents lvanced over the guidewire and tion of any shunting by color I of inadvertently enlarging the c	the PFO occlude to be accomplished as an obssible causes of recurrent lical management. Analy management may impro- incompletely inflated (< Doppler was identified. The defect. The diameter of the dergoing percutaneous su	outpatient nt FNE. vsis of results ove our ability <1 atm) until a The balloon the indentation	230 consecutive patients underwent
~	Potential bias State of the Art N/A – Articles does not Conclusions of the auth procedure with minimal Recurrence rate of crypt from ongoing randomize to select the best treatme Device used: Sizing bal distinct indentation in th was not inflated fully to was measured angiograp Safety & Performance Objective: This study so mediated PFO closure to Method: Retrospective Follow-up: 12 months of Appraisal	balloon but v device.	vas designed for assessment of ranscatheter PFO occlusion car . Patients may have multiple po s favorably with reports of mec ter PFO closure versus medical ents lvanced over the guidewire and tion of any shunting by color I of inadvertently enlarging the c ography. natomy by TEE in patients und f post-procedural residual atria	the PFO occlude to be accomplished as an obssible causes of recurrent lical management. Analy management may impro- incompletely inflated (< Doppler was identified. The defect. The diameter of the dergoing percutaneous su	outpatient nt FNE. vsis of results ove our ability <1 atm) until a The balloon the indentation sture- S).	230 consecutive patients underwent
spard e et 20)	Potential bias         State of the Art         N/A – Articles does not         Conclusions of the auth         procedure with minimal         Recurrence rate of crypt         from ongoing randomize         to select the best treatmed         Device used: Sizing bal         distinct indentation in th         was not inflated fully to         was measured angiograp         Safety & Performance         Objective: This study so         mediated PFO closure to         Method: Retrospective         Follow-up: 12 months to         Appraisal         Level of Evidence	balloon but v device.	vas designed for assessment of ranscatheter PFO occlusion car . Patients may have multiple po s favorably with reports of mec ter PFO closure versus medical ents lvanced over the guidewire and tion of any shunting by color I of inadvertently enlarging the c ography. natomy by TEE in patients und f post-procedural residual atria	the PFO occlude to be accomplished as an obssible causes of recurrent lical management. Analy management may impro- incompletely inflated (< Doppler was identified. The defect. The diameter of the lergoing percutaneous su l right-to-left shunt (RLS) Oxford 2011	outpatient nt FNE. vsis of results ove our ability <1 atm) until a The balloon the indentation sture- S).	consecutive patients underwent percutaneous suture- mediated PFO closure Sampling:
et	Potential bias         State of the Art         N/A – Articles does not         Conclusions of the auth         procedure with minimal         Recurrence rate of crypt         from ongoing randomize         to select the best treatmed         Device used: Sizing bal         distinct indentation in th         was not inflated fully to         was measured angiograp         Safety & Performance         Objective: This study so         mediated PFO closure to         Method: Retrospective         Follow-up: 12 months to         Appraisal         Level of Evidence         F	balloon but v device.	vas designed for assessment of ranscatheter PFO occlusion car . Patients may have multiple po s favorably with reports of mec ter PFO closure versus medical ents lvanced over the guidewire and titon of any shunting by color I of inadvertently enlarging the co ography. natomy by TEE in patients und f post-procedural residual atria Question Applied Treatment Benefit, Treatm	the PFO occlude a be accomplished as an obssible causes of recurrent lical management. Analy management may improve lincompletely inflated (  Doppler was identified. The diameter of the dia	outpatient nt FNE. vsis of results ove our ability <1 atm) until a 'he balloon he indentation nture- S).	230 consecutive patients underwent percutaneous suture- mediated PFO closure

		Sur	nmary of Safa	NuMED ty and Clinical 1	Parfarman	CO			
$\checkmark$		Sun	•	SCP – Sizing	reriorman	ce			
	Application	pati	cement in the superior ents (in the remaining	pulmonary vein; TEE mor patients the procedure was EE or intracardiac echo m	carried out in	A1	A2	A3	13, range 13 to 76)
	Patient	230	consecutive patients u	inderwent percutaneous su 3, range 15 to 76); M:84/F	ture-mediated	P1	P2	P3	Sex: M – 84
	Report	The		ent information to be able		R1	R2	R3	F – 146
			Suitability Grade (	(Range 4-12)			4		
	Data Contribution		Relevant Data				Gradi	ng	
	Outcomes/Endpoi	nts		e measures (closure (RLS ) indirectly reflect the inte evice.	nded	Yes	1	No 2	
	Follow-up		The duration of follo procedure) is accepta	w-up (up to 12 months aft able to assess whether dura arms and identify complica	tion of	Yes	1	No 2	
	Statistical analysis	5		f the data has been provide		Yes	1	No 2	1
	Clinical significar	ice	The magnitude of the significant (closure g	e treatment benefit observe grade).	d was clinically	Yes 1	1	No 2	
				Data Contribution G	rade (Range 4-8)		4		]
	Overall S&P App	·aisal. D	Disposition and Weigh	iting					
	S&P Grade (Range 9-25)	LOE +	(3) + Suitability (4) Contribution (4) = 11	Disposition and Weighting (select)	Accepted and Pivotal <b>9-12</b> Accepted but not Pivotal, 13-2 Excluded, 22-25				
	Relevant S&P Res								1
	Criteria Safety data		esults o procedural complica	tions.			N/	value A	
			· ·						
	Performance data	gı		, TTE evaluation showed a atients and an effective clo			N/	A	
	Benefits/claims da	ata N	one				N/		
	Strengths Weaknesses/		arge population studied		tion and materti-	11	N/		
	Potential bias	le Ti	Retrospective analysis with obvious intrinsic limitation and potentially leads to biases.       N/A         The study is focused on the assessment of the safety and performance of the PFO occlude device and not of the NuMED, Inc. sizing balloon.       N/A				А		
	<u>State of the Art</u> N/A – Articles does	s not cor	ntribute to SOA.						
				-mediated PFO closure is ontaneous large RLS are lo					
	Device used: PTS-	tients (i	in the remaining patien	nhanced sizing-balloon PF ts the procedure was carrie				out TEE	
agia		dy aime re of PF	ed to investigate the ris	k factors for recurrent cryp llow-up.	otogenic cerebrov	ascular	even	ts	Population 282 consecutive patients

NuMED	

Level of	Study Method/Des	Design Question Applied			Oxfor	rd LO	E	Sampl
Evidence					2011			n = N/A
	Retrospective stud		reatment Benefit, Treatmen	nt Harms	1 2	3	4 5	Mean
		(0	Common)					mean 4
Suitability	Relevant Data					Gradir	ıg	11.7, ra
Device		the size and anatomy of the PFO were determined by gentle inflation of compliant-sized balloon PTS NuMED, Inc. until a waist was apparent.					D3	not rep
Application	PFO closure was p	O closure was performed in a catheterization laboratory under general esthesia with fluoroscopy and TEE imaging.				A2	A3	Sex: M – 17 F – 100
Patient	282 consecutive pa	2 consecutive patients underwent percutaneous PFO closure; mean 48 1.7, range not reported; M: 176/F: 106.				P2	P3	
Report	The article contain	e article contains sufficient information to be able to undertake a			R1	R2	R3	-
	Turienar and coje	rational and objective assessment.       Suitability Grade (Range 4-12)       4						_
Data Contributi	ion Relevant Data					Gradir	וס	
Outcomes/End			asures (closure (RLS		Yes 1		No 2	41
nts			irectly reflect the intended	performance of	Yes I No 2		110 2	
Follow-up	Long-term dur to assess whet	ng-term duration of follow-up (up to 8.4 years from PFO closure) assess whether duration of treatment benefits/harms and identify					No 2	
Statistical analy	complications. vsis Statistical anal		data has been provided.		Yes 1		No 2	-
		The magnitude of the treatment benefit observed was clinically						-11
Clinical	The magnitude	e of the trea	tment benefit observed wa	s clinically	Yes 1		No 2	
Clinical significance	The magnitude significant (clo		).	-	Yes 1		No 2	
				-	Yes 1	4	No 2	
significance	significant (clo	osure grade)	). Data Contribution G	-	Yes 1		No 2	
significance	significant (clo	osure grade) and Weigl	). Data Contribution G	rade (Range 4-8)		4	No 2	_
significance	significant (clo	and Weigl bility (4)	). Data Contribution G	-	votal <b>9</b> t Pivota	4		
significance werall S&P Ap S&P Grade	praisal, Disposition LOE (3) + Suita	and Weigl bility (4)	). Data Contribution G nting Disposition and	rade (Range 4-8) Accepted and Pi Accepted but no	votal <b>9</b> t Pivota	4		
significance werall S&P Ap S&P Grade (Range 9-25) elevant S&P F	significant (clo ppraisal, Disposition LOE (3) + Suita + Data Contributio	and Weigl bility (4) on (4) = 11	). Data Contribution G nting Disposition and	rade (Range 4-8) Accepted and Pi Accepted but no	votal <b>9</b> t Pivota	4 -12 al, 13-:	21	
significance werall S&P Ap S&P Grade (Range 9-25) elevant S&P F Criteria	significant (clo opraisal, Disposition LOE (3) + Suita + Data Contributio Results	and Weigh bility (4) on (4) = 11 Results	Data Contribution G nting Disposition and Weighting (select)	rade (Range 4-8) Accepted and Pi Accepted but no	votal <b>9</b> t Pivota	4 -12 al, 13-:	21 alue	
significance verall S&P Ap S&P Grade (Range 9-25) elevant S&P F Criteria Safety data – C	significant (clo ppraisal, Disposition LOE (3) + Suita + Data Contributio	and Weigh bility (4) on (4) = 11 Results Intra-oper	). Data Contribution G nting Disposition and Weighting (select) rative complications:	rade (Range 4-8) Accepted and Pi Accepted but no Excluded, 22-25	votal <b>9</b> t Pivota	4 -12 al, 13-:	21 alue	
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NUMED Summary of Safety and Clinical Performance SSCP Sizing									
SSCP – Sizing									
	State of the Art N/A – Articles does not contribute to SOA.								
	<ul> <li>Conclusions of the authors: This study indicates that residual shunting and choice of the device may be the major reasons for rCVEs.</li> <li>Device used: PTS NuMED, Inc. used to determine the size and anatomy of the PFO; general anesthesia; fluoroscopy and TEE imaging.</li> </ul>								
		cribe experier he tricuspid v	alve during advanceme	DrySeal (GDS) sheaths (WI ent of the Commander delive					
	Method: Retro	spective revie	W						
	Follow-up: pos Appraisal	t-procedural							Population:
	Level of Evide	ence Study	Method/Design	Question Applied		Oxford LOE 2011			48 patients underwent
		Retro	spective study	Treatment Benefit, Treatm (Common)	ent Harms	1 2	3	4 5	transcatheter placement of a SAPIEN
	Suitability	Relevant Da	nta			Grading			valve in the
	Device			ng balloon NuMED, Inc. infl		D1	D2	D3	pulmonary position
		right ventricular outflow tract (RVOT) to determine the minimum diameter of the location that could be used as a landing zone.							Sampling:
	Application		ular or femoral vein			A1	A2	A3	Group I (without
	Patient	48 patients; mean age between 23.2 and 25.9; 24 malesP1P2						P3	using a long
	Report	The article contains sufficient information to be able to undertake a rational and objective assessment.R1R2					R2	R3	delivery sheat):
5.		Suitability Grade (Range 4-12) 4						n=25 Group I	
Stapleto n et al.	Data Contribution	Relevant Data				Grading		g	(with): n=23
(2020)	Outcomes/E ndpoints	The reported outcome measures (procedural success) indirectly reflect the intended performance of the device.				Yes 1	]	No 2	Mean Age: Group I:
	Follow-up	The duration of follow-up (post-procedural) seems acceptable to assess whether duration of treatment benefits/harms and identify complications.					]	No 2	mean 25.9 ± 15.5, range
	Statistical analysis							No 2	not reported Group II:
	Clinical significance	The magnitude of the treatment benefit observed was clinically significant (procedural success).						No 2	mean $23.2 \pm 16.5$ , range not reported
	Data Contribution Grade (Range 4-8) 4								
	S&P Grade (Range 9-25)				and Pivotal <b>9-12</b> but not Pivotal, 13- 22-25			Sex: Group I: M: 15 (60%) Group II: M: 9 (39%)	
	Relevant S&P	Results	T		Enoradou,		•		111. 7 (3770)
	Criteria		Results					alue	
	Safety data –		Not reported			N/A			
	Performance data – Severe tricuspid valve injury		Group I: 2/25 (8%) vs. Group II: 0/23			N/A		·	
	Benefits/claim		None				N/A		
	Strengths         Comparative study					N/A			

	<u></u>	NuMED				
	≓ Sum	mary of Safety and Clinical Performance				
SSCP – Sizing						
	Weaknesses/ Potential bias	Retrospective analysis with obvious intrinsic limitation and potentially leads to biases. The study is focused on the assessment of the safety and performance of the Gore sheath and not of the NuMED, Inc. sizing balloon.	N/A			
	State of the Art N/A – Articles does not contr	ibute to SOA.				
	of the S3 valve in the pulmor <b>Device used:</b> 30 or 40mm dia	Use of a long GDS may protect the tricuspid valve from injury during in ary position, and is technically feasible in smaller patients. ameter PTS-X sizing balloon NuMED, Inc. inflated in the RVOT to deter ation that could be used as a landing zone.				
An overa	ll summary of the clinical <b>p</b>	performance and safety:				
Sizing Ca		itical evaluation of the pertinent clinical data and pre-clinical s t and documented in accordance with MEDDEV 2.7/1 Rev 4.				
2. U	onditions of the intended use Indesirable side-effects and	eral safety and performance requirements set out in MDR Annex e of the device has been confirmed. acceptability of the benefit-risk ratio have been evaluated and are	acceptable according to the			
3. T i	The information materials sup ntended purpose of the device		aking into account the			
i 5. T	ntended users. The claims foreseen in the init	dequately considered and the Sizing Catheters, including the IFU, formation materials provided with the CER are adequate taking in				
6. 1		oplied and the RM documentation for the device under evaluation study data presented in the CER and with the current knowledge/s				
benefits t performar	o the patient and are com nees are achieved by the d	s associated with the use of the Sizing Catheters are acceptable patible with a high level of protection of health and safety evice; and that known and foreseeable risks and undesirable penefits from performances achieved by the device.	; that the intended clinical			
	planned post-market clinic ving is data from the current	al follow-up: PMCF Study on the Sizing Catheter.				
PTS-X ca	theters in actual practice. As	rket Clinical Follow-up (PMCF) study is to capture data on the 11 there are no identified residual risks for these devices, based on c n clinical performance of the devices.				
post-proce is a form Use. The	edure. Collected information questionnaire for each treat form will also be emailed to	ion will be collected from treating physicians, which will include will also include all device and/or procedure complications. The ing physician to complete. These forms will be included as an inse all NuMED distributors. The distributors will then be able to follo s is the best option for collecting feedback.	chosen design for this study ert in the Instructions for			
		ts, based on confidence intervals, in order to guarantee a 95% con is for which a 110cm useable length PTS and/or PTS-X catheter w				
	to the clinical study plan (an S-X Catheters – 110cm Use	nd amendment) number: Post Market Clinical Follow-up Study Pl able Length	MCF-360 / 360X Rev. 01			
-	ion Site: Selection of sites / i with a CE Marked IFU is s	investigators will include any / all orders for which a 110cm useal applied.	ole length PTS and/or PTS-			



Regulatory Authority Approvals: N/A – the studied devices are CE-marked devices and are used according to the indications covered by current CE marking. Notified Body reviewed the clinical plan of this study.

Patient Population: Study cohort will include all patients whom undergo an interventional procedure with the 110cm useable length PTS and/or PTS-X catheter.

Clinical Study Results: NuMED has received the required (59) applicable PMCF forms, which meets the sample size criteria established for this specific study. A target study size of 59 patients was chosen, based on confidence intervals, in order to guarantee a 95% confidence level, 95% of the time.

There were zero (0) complaints received during the PMCF study time frame, related to applicable PMCF sales. The overall complaint rate for the Sizing Catheters is extremely low (0.045%). The PMCF Study forms have not shown any increase in the complaint rate or introduced any new risks associated with the additional useable length of the device.

Of the (94) forms returned, 90 resulted in a successful procedure (96%). The remaining 4 forms were left blank in this section.

The Sizing Catheters have been on the worldwide market for over 20 years, allowing the devices to be used on a variety of patients and populations. In 2017, an additional useable length of 110cm was added to the product line. The overall complaint rate for the Sizing Catheters is 0.045% (broken down in Section C). Based on the PMCF study findings, NuMED concludes the long-term safety and clinical performance of these devices has been well established via substantial clinical evidence demonstrated during the study. NuMED has determined the Sizing Catheters to be safe and effective when used as indicated, at both useable lengths. No changes are required to the risk analysis or the instructions for use at this time. Any PMCF forms and/or complaints received in the future will continue to be evaluated. Established post market surveillance activities will be followed with the conclusion of the PMCF Study.

Purpose Criteria: The objective of the PMCF study is to determine if there is an increase in complications and / or complaints associated with the 110cm useable length PTS and/or PTS-X catheters through actual clinical use, as compared to the 80cm useable lengths or if any new risks are introduced. All returned PMCF forms, sales & complaint data, as well as any applicable literature will be reviewed. The review of the PMCF forms, and sales and complaint data will take place each month during the quality meeting. The results will also be reviewed against the current Failure Modes, Effects and Criticality Analysis (FMECA) in order to determine if any new risks have been introduced.

#### 6. Possible diagnostic or therapeutic alternatives

Alternatives to the use of sizing balloons would be to not use them; in this case, the size of the defect would only be estimated based on diagnostic and pre-procedure imaging. It was reported by the ASE Guideline (2015) that some operators might not perform balloon sizing because of the dimensions of the effect (small defect). Not sizing the cardiac defect before transcatheter closure would be inconsistent with ASE recommendations and standard-of-care.

Alternatives to the use of transcatheter cardiac occluder devices to which sizing balloons are associated would be to not proceed with a therapeutic intervention and establish a continuous follow-up or to provide medical treatments with dedicated drugs or to proceed with an open surgery of the heart. AHA/ACC and ESC Guidelines offers recommendations and algorithms on how to proceed based on the patient's medical history and disease conditions. However, it is generally accepted that compared to open surgery a percutaneous approach offers a shorter hospital length of stay and a faster recovery, with similar long-term outcomes.

#### 7. Suggested profile and training for users

Users of percutaneous sizing balloons are qualified cardiac surgeons trained to the stop-flow technique.

#### 8. Reference to any harmonised standards and CS applied

There are no Common Specifications for this type of device.

The following harmonised standards are followed for this device:

- EN ISO 11135:2014 Sterilization of health-care products Ethylene oxide Requirements for the development, validation and routine control of a sterilization process for medical devices.
- EN ISO 11737-1:2018/A1:2021 Sterilization of medical devices Microbiological methods Part 1: Determination of a



#### population of microorganisms on products

- EN ISO 13485:2016/A11:2021 Medical devices Quality management systems Requirements for regulatory purposes
- EN ISO 15223-1:2021 Medical devices Symbols to be used with medical device labels, labelling and information to be supplied Part 1: General requirements.

#### 9. References

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- 5. Stapleton, Gary & Gowda, Srinath & Bansal, Manish & Khan, Asra & Qureshi, Athar & Justino, Henri. (2020). SAPIEN S3 valve deployment in the pulmonary position using the gore DrySeal sheath to protect the tricuspid valve. Catheterization and Cardiovascular Interventions. 96. 10.1002/ccd.29120.

10. Revision History						
SSCP revision number	Date Issued	Change Description	Revision validated by Notified Body			
00	21 June 2022	Initial implementation	☐ Yes Validation Language: English ⊠ No			
01	18 November 2022	Update due to new CER. Change in warnings to separate the one warning for PTS and PTS-X due to MRI, update for PMCF Study completion	☐ Yes Validation Language: English ⊠ No			