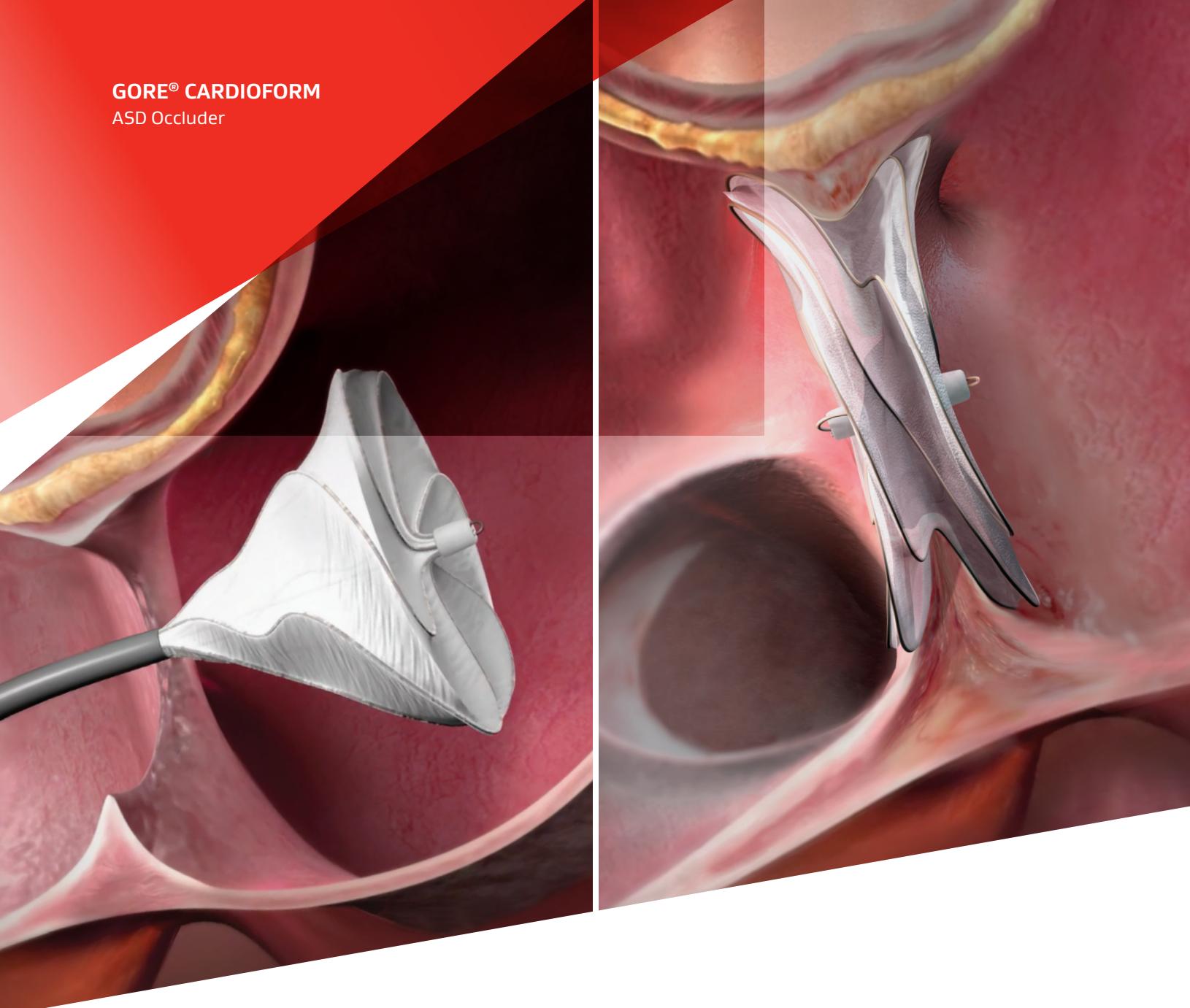


GORE® CARDIOFORM

ASD Occluder



ASDs WITH DEFICIENT RETRO-AORTIC RIMS^a DEMAND SAFE AND EFFECTIVE CLOSURE^{1,2}

^a Deficient retro-aortic rim was defined as a retro-aortic rim measuring less than or equal to 5 mm on any view on echocardiogram.

Table of contents

ASDs with deficient retro-aortic rims demand safe and effective closure	1
Advanced materials delivering exceptional conformability	2
A leader in safety	4
Wire frame fracture (WFF) analysis.....	7
Trusted closure performance through 36 months	8
Case examples	9
Trusted deployment.....	10
1-2-3 deployment sequence	11
Device specifications	12

Acronym glossary

Atrial septal aneurysm (ASA)
Atrial septal defect (ASD)
expanded polytetrafluoroethylene (ePTFE)
Product surveillance tracking system (PSTS)
Transesophageal echocardiogram (TEE)



ASDs WITH DEFICIENT RETRO-AORTIC RIMS^b DEMAND SAFE AND EFFECTIVE CLOSURE^{1,2}

The GORE® CARDIOFORM ASD Occluder advances ASD closure with a solution designed to naturally conform to each unique defect, delivering on a legacy of safety and performance.

A leader in safety



0

confirmed reports of cardiac erosion^{c,1,2}

Trusted closure
performance at
36 months^{c,d,2}



100%

effective closure across
a broad range of ASD
anatomies at 36 months^{c,d,e,2}

No retro-aortic
rim required³



56.4%

of patients enrolled in the Gore ASSURED
Clinical Study were reported to have
deficient retro-aortic rims (< 5 mm)²

Trusted
deployment³



1-2-3

straightforward delivery with the ability
to reposition and retrieve³

^b Deficient retro-aortic rim was defined as a retro-aortic rim measuring less than 5 mm on any view on echocardiogram.

^c Reported incidence rate of device-related cardiac erosions for GORE® CARDIOFORM ASD Occluder calculated using data from CATSWeb® Product Surveillance Tracking System [PSTS] and SMARTSOLVE®. Data on file. March 1, 2015 – May 31, 2025; W. L. Gore & Associates Inc.; Flagstaff, AZ.

^d Closure success defined as completely occluded or clinically insignificant shunt as determined by the Echo Core Lab at the 6-month evaluation among subjects with technical success.³

^e All ASD anatomies within indicated sizing parameters of the *Instructions for Use*.

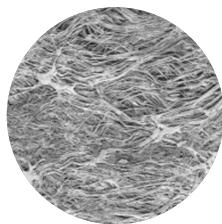
ADVANCED MATERIALS DELIVERING EXCEPTIONAL CONFORMABILITY^{f,g,h,1,2}

- Developed by a company with over 60 years of materials science experience
- Engineered to conform to a broad range of ASD anatomies^{g,1,2}
- No minimum retro-aortic rim requirements³



ePTFE

Biocompatible, compliant material enables exceptional conformability and rapid endothelialization



ePTFE 250x magnification



30-days post-implant
in canine model

^f Closure success defined as a clinical residual defect status of occluded or clinically insignificant as determined by the Echo Core Lab at the 6-month evaluation among subjects with technical success.³

^g All ASD anatomies were eligible for inclusion into the ASSURED Clinical Study within indicated sizing parameters of the *Instructions for Use*.

^h 100% closure success rate across ASD anatomies at 36 months.^{f,g,i,2}

Anatomically adaptable waist

Designed to fill and conform to the defect



Minimal metal

- 6 or 8 platinum-filled nitinolⁱ wires
- Low metal mass solution for defect closure
- Designed to reduce the risk of tissue damage
- Minimal nickel elution and exposure relative to other competitive nitinol-framed devices^{i,j,k,l}

ⁱ Nickel titanium.

^j Patients allergic to nickel may suffer an allergic reaction to the GORE® CARDIOFORM ASD Occluder. Certain allergic reactions can be serious; patients should be instructed to notify their physicians immediately if they suspect they are experiencing an allergic reaction such as difficulty in breathing or inflammation of the face or throat. Some patients may also develop an allergy to nickel if this device is implanted.

^k Refer to *Instructions for Use* at eifu.goremedical.com for a complete description of all applicable indications, warnings, precautions and contraindications for the markets where this product is available. Rx Only

^l Data on file. W. L. Gore & Associates, Inc.; Flagstaff, AZ.



A LEADER IN SAFETY



10+ years of clinical use



17,000+ devices sold globally



0 confirmed reports of cardiac erosion^{m,1,2}



1 reported case of clinical sequelae associated with wire frame fractures^{n,o}

^m Reported incidence rate of device-related cardiac erosions for GORE® CARDIOFORM ASD Occluder calculated using data from CATSWeb® Product Surveillance Tracking System [PSTS] and SmartSolve.® Data on file. March 1, 2015 – October 31, 2025. W. L. Gore & Associates, Inc.; Flagstaff, AZ.

ⁿ Reported incidence rate of clinical sequelae associated with wire frame fracture for GORE® CARDIOFORM ASD Occluder. Calculated using data from CATSWeb® Product Surveillance Tracking System [PSTS] and SMARTSOLVE.® Data on file. March 1, 2015 – October 31, 2025. W. L. Gore & Associates, Inc.; Flagstaff, AZ.

^o Clinical experience with GORE® CARDIOFORM ASD Occluder has reported 1 case of clinical sequelae associated with wire frame fracture from a total of >17,000 devices sold globally. It was reported that the patient presented with onset mitral regurgitation due to perforation of the mitral leaflet induced by device wire frame fracture. It was reported that surgical intervention was required, with the patient making a full recovery.

CARDIAC EROSION HAS OCCURRED WITH ALTERNATIVE OCCLUDER DEVICES^{4–11}

ABBOTT® AMPLATZER® Septal Occluder

Reported between 2002 and 2014⁹



ABBOTT® AMPLATZER® Septal Occluder, ABBOTT® AMPLATZER® PFO Occluder and ABBOTT® AMPLATZER® Multifenestrated Septal Occluder – “Cribriform”

Reported between 2012 and 2018¹⁰



ABBOTT® AMPLATZER® Septal Occluder

Reported in a prospective, multicenter, post-approval study⁸



Estimates for cardiac erosion following ABBOTT® AMPLATZER® Septal Occluder implantation reported to range from 0.1–0.3%.⁷

ABBOTT® AMPLATZER® PFO Occluder

Reported in the AGA Registry between October 2000 and December 2006¹¹



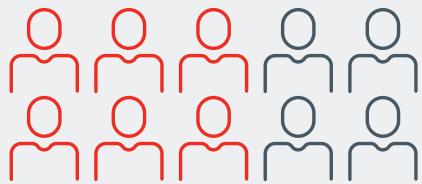
Cardiac erosion incidence rate of 0.018% reported for ABBOTT® AMPLATZER® PFO Occluder.¹¹

OCCLUTECH® ASD Occluder

7 erosions reported through 2018⁶

The data presented are compiled from individual published studies and reports, each of which is cited accordingly. Rates of erosions and deaths reflect findings from separate data sources with varying methodologies, patient populations, and reporting criteria. No direct, head-to-head comparison between devices is intended or should be inferred. The information is provided for general reference only and should not be interpreted as establishing comparative performance or safety.

NO RETRO-AORTIC RIM REQUIREMENTS³



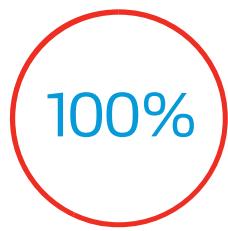
60% of patients

undergoing transcatheter ASD closure have been reported to have deficient retro-aortic rims.^{p,12}

Gore ASSURED Clinical Study:



of patients enrolled in the Gore ASSURED Clinical Study were reported to have deficient retro-aortic rims (< 5 mm)²



effective closure at 36 months^{a,2}

GORE® CARDIOFORM

ASD Occluder

The only ASD occluder with no warnings, potential adverse events or precautions related to cardiac erosions or use in patients with deficient retro-aortic rims.^{p,1,3-5}



^p Deficient retro-aortic rim was defined as a retro-aortic rim measuring less than 5 mm on any view on echocardiogram.

^a Closure success defined as completely occluded or clinically insignificant shunt as determined by the Echo Core Lab at the 6-month evaluation among subjects with technical success.³

WIRE FRAME FRACTURE ANALYSIS

Clinical sequelae
associated with device
wire frame fracture is rare^r



Summary of reported incidence of clinical sequelae associated with device wire frame fractures for the GORE® CARDIOFORM ASD Occluder.^r

Occluder	First use in humans	Approval year (EU and U.S.)	Devices sold globally	Reported incidence of clinical sequelae associated with device wire frame fracture ^s
GORE® CARDIOFORM ASD Occluder	2015	2019	>17,000	1

GORE® CARDIOFORM ASD Occluder Pivotal IDE Study for ASD closure:
summary of wire frame fracture occurrence at 36-month follow-up.^{2,13}

All pivotal and CA subjects (N = 569) ^{t,u}	Overall	27 mm	32 mm	37 mm	44 mm	48 mm
Technical success	526 (92.4%)	122 (21.4%)	168 (29.5%)	118 (20.7%)	74 (13.0%)	44 (7.7%)
36-month fluoroscopy completed	185 (35.2%)	42 (34.4%)	50 (29.8%)	49 (41.5%)	25 (33.8%)	19 (43.2%)
Wire frame fracture	105 (56.8%)	16 (38.1%)	24 (48.0%)	26 (53.1%)	22 (88.0%)	17 (89.5%)
Clinical sequelae	0	0	0	0	0	0

^r Reported incidence rate of clinical sequelae associated with wire frame fracture for GORE® CARDIOFORM ASD Occluder. Calculated using data from CATSWeb® Product Surveillance Tracking System [PSTS] and SMARTSOLVE®. Data on file. March 1, 2015 – October 31, 2025. W. L. Gore & Associates, Inc.; Flagstaff, AZ.

^s Clinical experience with GORE® CARDIOFORM ASD Occluder has reported 1 case of clinical sequelae associated with wire frame fracture from a total of >17,000 devices sold globally. It was reported that the patient presented with onset mitral regurgitation due to perforation of the mitral leaflet induced by device wire frame fracture. It was reported that surgical intervention was required, with the patient making a full recovery.

^t All WFF measurements are calculated on a per-subject basis; by protocol, all subjects who retained the study device received 1, and only 1, study device. Denominator for wire frame fracture and clinical sequelae percentages is number of subjects completing fluoroscopy.

^u 36-month fluoroscopy was added in a post-enrollment protocol amendment to identify and assess WFF.



TRUSTED CLOSURE PERFORMANCE THROUGH 36 MONTHS^{v,2}

100%

Effective closures
across all ASD anatomies
at 36 months

Characteristics of complex ASDs

ASD category	Anatomical characteristics
--------------	----------------------------

Complex



- Deficient retro-aortic rim < 5 mm¹⁴
- Deficient posterior-inferior rim < 3 mm¹⁴
- Large defects — stretched diameter \geq to 26 mm¹⁴
- Multiple or fenestrated defects
- Atrial septal aneurysm
- Combination of the above

^v Closure success defined as completely occluded or clinically insignificant shunt as determined by the Echo Core Lab at the six-month evaluation among subjects with technical success.²

CASE EXAMPLES

Deficient retro-aortic rim < 5 mm

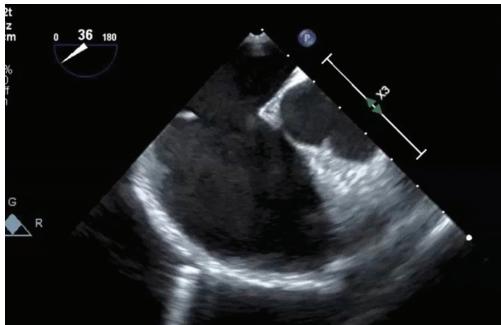


Image courtesy of Bryan Goldstein, MD. Used with permission.

Image 1A TEE showing interrogation of ASD with deficient retro-aortic rim.

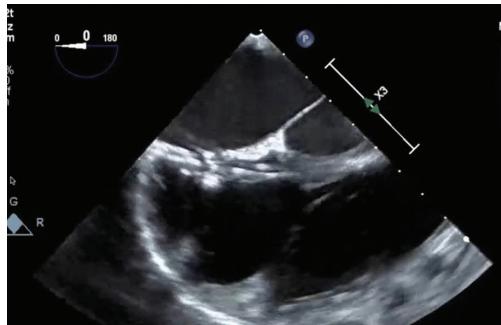


Image courtesy of Bryan Goldstein, MD. Used with permission.

Image 1B Closure of ASD with a deficient retro-aortic rim with the GORE® CARDIOFORM ASD Occluder.

Large ASD with deficient posterior-inferior rim

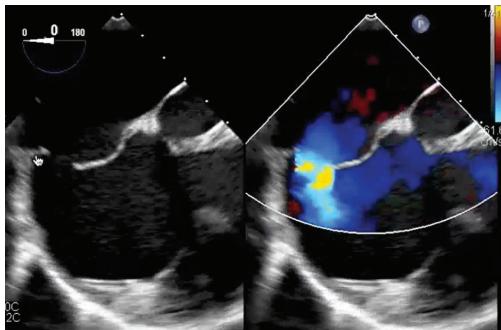


Image courtesy of Alvaro Galindo, MD. Used with permission.

Image 2A TEE demonstrating large ASD with a deficient posterior-inferior rim.

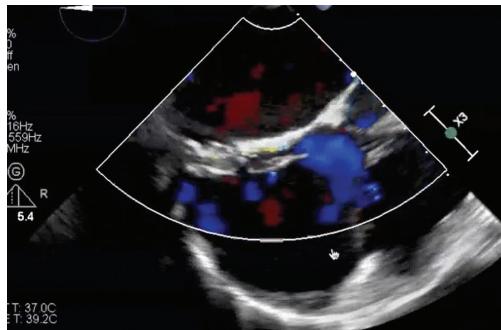


Image courtesy of Alvaro Galindo, MD. Used with permission.

Image 2B Closure of ASD with a deficient posterior-inferior rim with a GORE® CARDIOFORM ASD Occluder.

Multiple defects with ASA

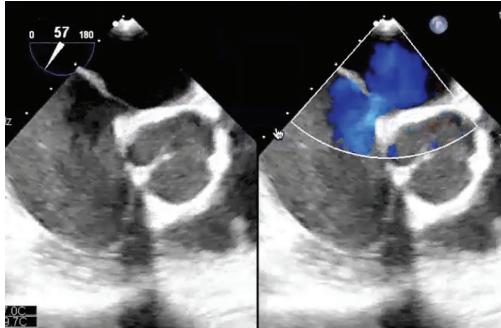


Image courtesy of Alvaro Galindo, MD. Used with permission.

Image 3A TEE demonstrating multiple ASDs with ASA.

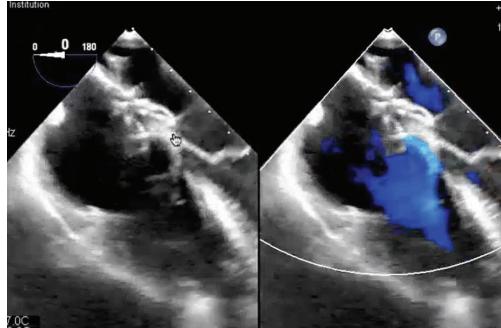
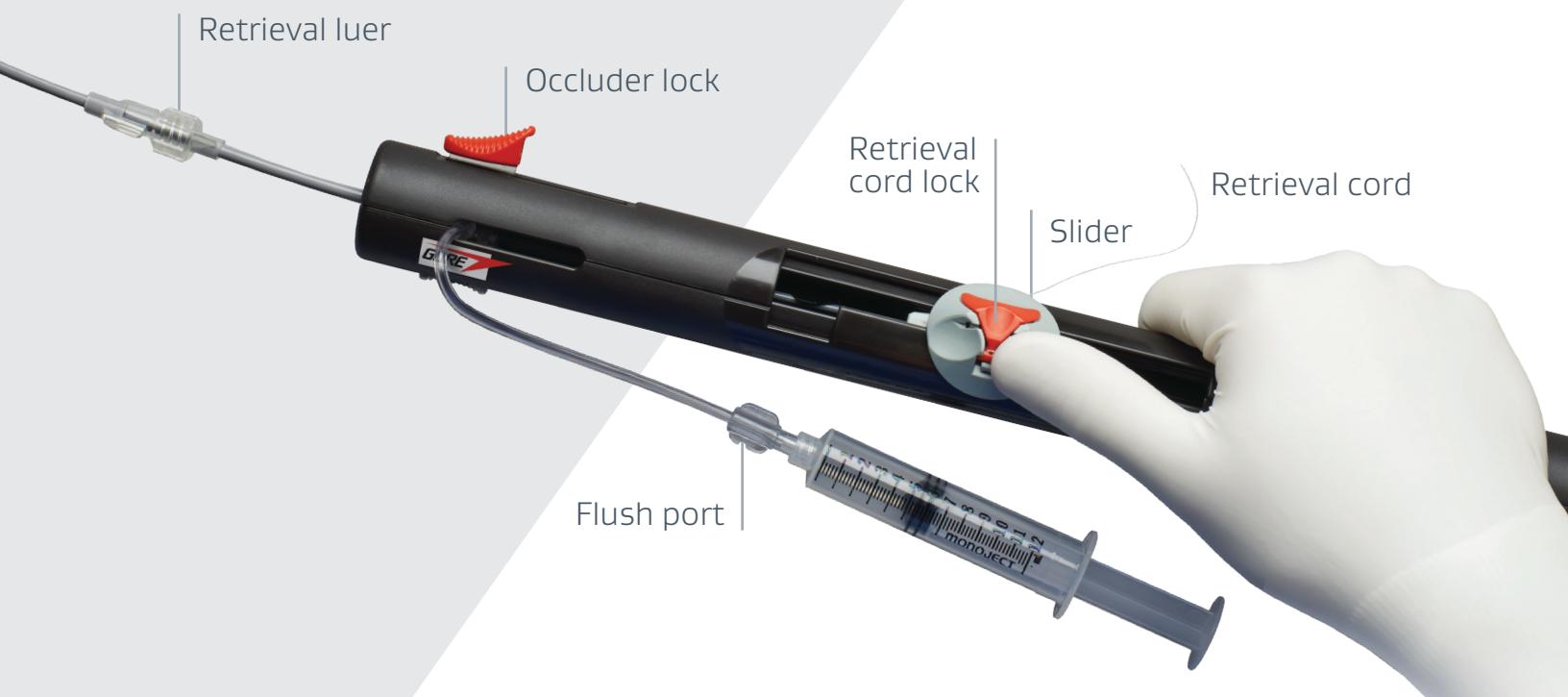


Image courtesy of Alvaro Galindo, MD. Used with permission.

Image 3B Closure of multiple ASDs with ASA with a GORE® CARDIOFORM ASD Occluder.

TRUSTED DEPLOYMENT^{w,3}

- Straightforward delivery with the ability to retrieve and reposition^{w,3}
- Pre-assembled occluder and delivery system³ designed to reduce device preparation time



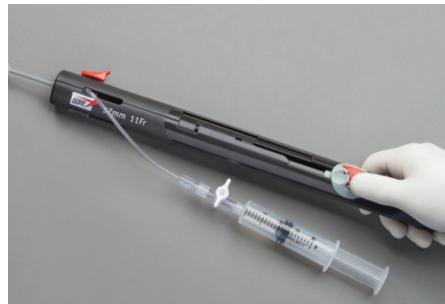
The built-in retrieval cord allows for tension-free assessment and post-lock retrieval, if needed.³

^w Refer to *Instructions for Use* at eifu.goremedical.com for a complete description of all applicable indications, warnings, precautions and contraindications for the markets where this product is available. Rx Only

1-2-3 DEPLOYMENT SEQUENCE^x

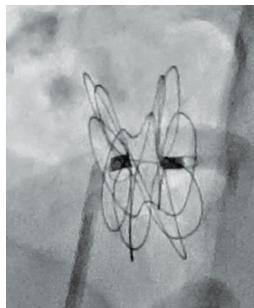
1. Deploy

Handle design with slider enables accurate deployment with the ability to reposition.



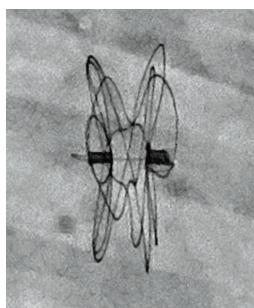
2. Lock

Simple-to-use locking mechanism. Tension-free assessment post-lock where the occluder remains tethered to the delivery system.



3. Release

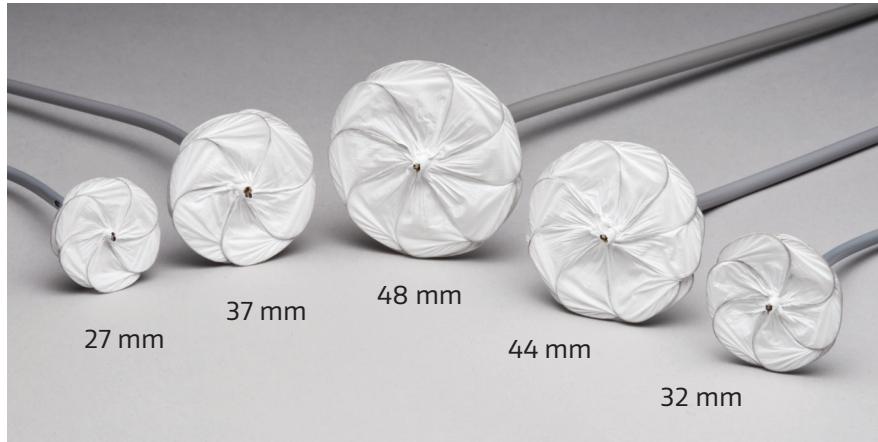
Pull the retrieval cord until completely removed to release the device from the delivery system.



^x Refer to *Instructions for Use* at eifu.goremedical.com for a complete description of all applicable indications, warnings, precautions and contraindications for the markets where this product is available. Rx Only

DEVICE SPECIFICATIONS

With the conformable design of the GORE® CARDIOFORM ASD Occluder, 5 catalogue numbers cover ASDs from 8 to 35 mm.^y



Device size (Disc diameter)	Treatment range measured with stop flow balloon sizing	Sheath size ^x	U.S. catalogue number ^{aa}
27 mm	8–15 mm	10 Fr	ASD27A
32 mm	13–20 mm	10 Fr	ASD32A
37 mm	18–25 mm	11 Fr	ASD37A
44 mm	23–30 mm	12 Fr	ASD44A
48 mm	28–35 mm	14 Fr	ASD48A

^y Refer to *Instructions for Use* at eifu.goremedical.com for a complete description of all applicable indications, warnings, precautions and contraindications for the markets where this product is available. Rx Only

^x Recommendation for sheath size is 2 Fr larger when used with a wire.

^{aa} Catalogue numbers may vary by country or region.



Scan to access valuable GORE®
CARDIOFORM ASD Occluder case
studies, patient materials and
deployment videos.



To learn more about the
GORE® CARDIOFORM ASD Occluder,
contact your Gore Representative.

References

1. Sommer RJ, Love BA, Paolillo JA, et al.; ASSURED Investigators. ASSURED clinical study: new GORE® CARDIOFORM ASD Occluder for transcatheter closure of atrial septal defect. *Catheterization & Cardiovascular Interventions* 2020;95(7):1285-1295.
2. Qureshi, Athar M., et al. "Long-term results of the atrial septal defect occluder assured trial for combined pivotal/continued access cohorts." *Cardiovascular Interventions* 17.19 (2024): 2274-2283.
3. GORE® CARDIOFORM ASD Occluder Instructions for Use (IFU). W. L. Gore & Associates, Inc. Accessed October 15, 2025. eifu.goremedical.com
4. AMPLATZER™ Multifenestrated Septal Occluder – "Cribriform" [Instructions for Use]. Plymouth, MN: Abbott Medical; 2022. ARTEN600196098 B.
5. AMPLATZER™ Septal Occluder [Instructions for Use]. Plymouth, MN: Abbott Medical; 2022. ARTEN600196097 B.
6. Auriau, Johanne, et al. "Cardiac erosions after transcatheter atrial septal defect closure with the occlutech figulla flex device." *Cardiovascular Interventions* 12.14 (2019): 1397-1399.
7. Crawford GB, Brindis RG, Krucoff MW, Mansalis BP, Carroll JD. Percutaneous atrial septal occluder devices and cardiac erosion: a review of the literature. *Catheterization & Cardiovascular Interventions* 2012;80(2):157-167.
8. Turner DR, Owada CY, Sang CJ Jr, Khan M, Lim DS. Closure of secundum atrial septal defects with the AMPLATZER Septal Occluder: a prospective, multicenter, post-approval study. *Circulation: Cardiovascular Interventions* 2017;10(8):e004212.
9. McElhinney DB, Quartermain MD, Kenny D, Alboliras E, Amin Z. Relative risk factors for cardiac erosion following transcatheter closure of atrial septal defects: a case-control study. *Circulation* 2016;133(18):1738-1746.
10. Bier ML, Dhawan P, Shah SU, et al. Cardiac erosions with the Amplatzer Septal Occluder: adverse events in the Manufacturer and User Facility Device Experience (MAUDE) Database since the 2012 FDA review. *Structural Heart*. 2021;5(1):85-89.
11. Amin Z, Hijazi ZM, Bass JL, Cheatham JP, Hellenbrand W, Kleinman CS. PFO closure complications from the AGA Registry. *Catheterization & Cardiovascular Interventions* 2008;72(1):74-79.
12. O'Byrne ML, Glatz AC, Sunderji S, et al. Prevalence of deficient retro-aortic rim and its effects on outcomes in device closure of atrial septal defects. *Pediatric Cardiology* 2014;35(7):1181-1190.
13. Gore ASSURED Clinical Study. Data is inclusive of pivotal and continued access subjects only. Data on file. W. L. Gore Associates, Inc: Flagstaff, AZ
14. Hijazi ZM, Feldman T, Mustafa H, et al. Transcatheter Closure of ASDs and PFOs: A Comprehensive Assessment. 1st Edition. Cardiotext Publishing. 2010.

 Consult Instructions
for Use
eifu.goremedical.com

INDICATIONS FOR USE IN THE U.S.: The GORE® CARDIOFORM ASD Occluder is a permanently implanted device indicated for the percutaneous, transcatheter closure of ostium secundum atrial septal defects (ASDs). **CONTRAINDICATIONS:** The GORE® CARDIOFORM ASD Occluder is contraindicated for use in patients: Unable to take anti-platelet or anticoagulant medications such as aspirin, heparin or warfarin; with anatomy where the GORE® CARDIOFORM ASD Occluder size or position would interfere with other intracardiac or intravascular structures, such as cardiac valves or pulmonary veins; with active endocarditis, or other infections producing bacteremia, or patients with known sepsis within one month of planned implantation, or any other infection that cannot be treated successfully prior to device placement; with known intracardiac thrombi.

Refer to *Instructions for Use* at eifu.goremedical.com for a complete description of all applicable indications, warnings, precautions and contraindications for the markets where this product is available. Rx Only

Products listed may not be available in all markets.

© 2023, 2025 W. L. Gore & Associates, Inc. All rights reserved. All trademarks referenced are trademarks of either a member of the Gore group of affiliated companies or their respective owners. "Together, improving life" mark and design are trademarks of a Gore company. 25CR6006-EN01 DECEMBER 2025

W. L. Gore & Associates, Inc.
goremedical.com

Asia Pacific: +65 67332882 **Australia/New Zealand:** 1 800 680 424 **Europe:** 00800 6334 4673
United States Flagstaff, AZ 86004 800 437 8181 928 779 2771

