

TRIFECTA™ GT VALVE

Because your patients' lives matter.

HEMODYNAMICS MATTER.



CHOOSE THE VALVE DESIGNED FOR OPTIMAL FLOW.

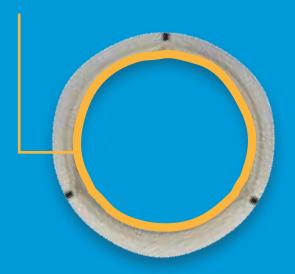
HEMODYNAMICS MATTER.



TRIFECTA™ VALVES: EXPANSIVE, EXTERNALLY-MOUNTED LEAFLET DESIGN



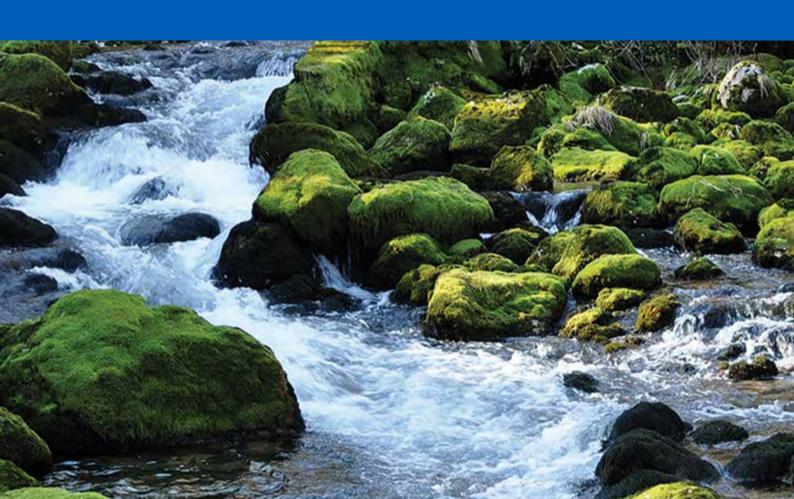
Trifecta[™] Valves: Expansive, Externally-mounted Leaflet Design Perimount™ Valves: Restrictive, Internally-mounted Leaflet Design





"The nearly cylindric opening of the Trifecta™ prosthesis on systole provides gradients and EOAs that surpass any other available stented aortic prosthesis."

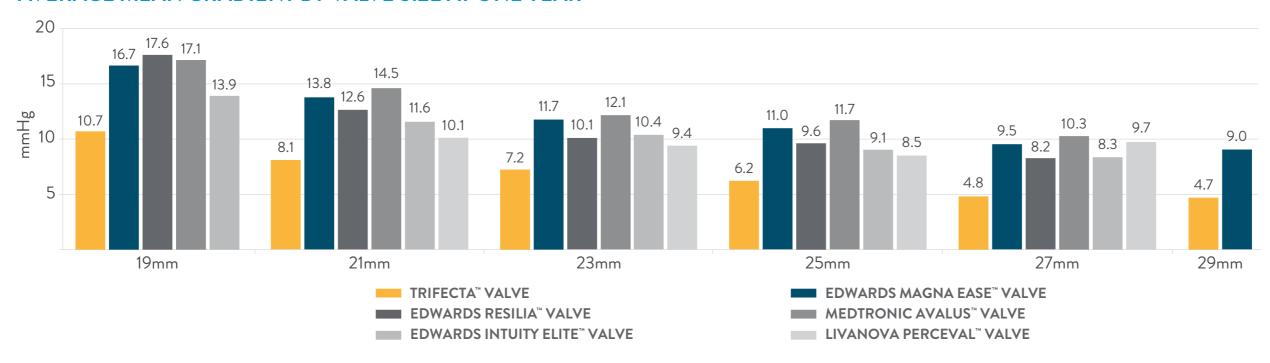
— Bavaria et al.⁶



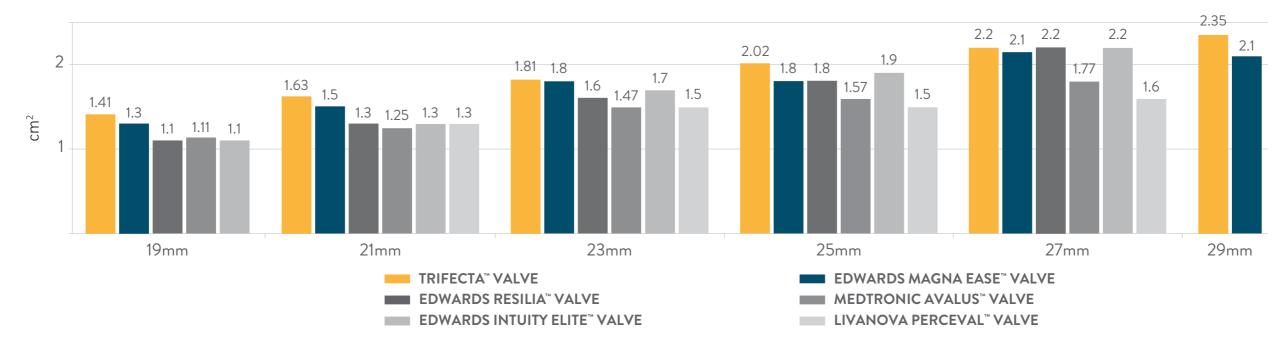
ONLY ONE SAVR VALVE DELIVERS SINGLE-DIGIT GRADIENTS ACROSS MOST VALVE SIZES.

HEMODYNAMICS MATTER.

AVERAGE MEAN GRADIENT BY VALVE SIZE AT ONE YEAR*7-12



AVERAGE EFFECTIVE ORIFICE AREA (EOA) AT ONE YEAR*7-12



FOR EACH INCREASE OF 1 MMHG IN MEAN GRADIENT,

THE RELATIVE RISK OF HEART FAILURE (HF)
RECURRENCE OR

HF-RELATED DEATH IS INCREASED BY 6%13



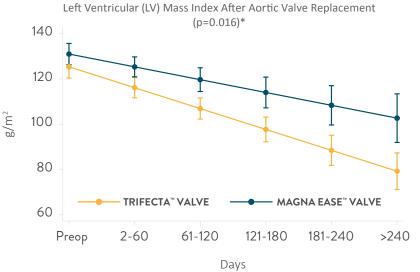
BECAUSE LOWER GRADIENTS REDUCE RISK OF HEART FAILURE.

HEMODYNAMICS MATTER.

TRIFECTA™ VALVE:

SIGNIFICANTLY GREATER LV MASS REGRESSION COMPARED WITH MAGNA EASE™ VALVE14

- Greater total mass regression
- Greater mass regression over time



An independent, propensity-matched, head-to-head study following 258 patients receiving either a Magna Ease™ Valve (n=141) or Trifecta™ Valve (n=117) demonstrates higher LV mass regression.

TRIFECTA™ VALVE:

SIGNIFICANTLY REDUCED RISK COMPARED WITH MAGNA EASE™ VALVE¹⁴

76.5%

RELATIVE RISK REDUCTION
OF READMISSION
(CARDIAC-RELATED, P=.011)

82.3%

RELATIVE RISK REDUCTION
OF HF REQUIRING URGENT
INTERVENTION (P=.016)

^{*} Content adapted from original article content.

BECAUSE YOUR PATIENTS LEAD ACTIVE LIVES. HEMODYNAMICS MATTER.

TRIFECTA™ VALVE:

INCREASED EOAs WITH INCREASED CARDIAC OUTPUT¹⁴

• Significantly greater hemodynamic reserve than Magna Ease™ Valve



"During exercise, the EOAI in the Trifecta group increased significantly until maximum exercise."

- Hanke et al. P = 0.0215

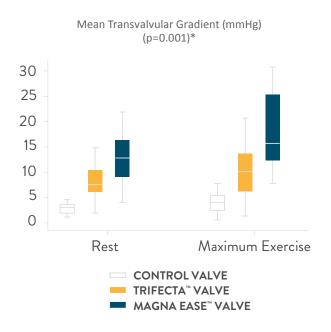
TRIFECTA™ VALVE:

SIGNIFICANTLY LOWER GRADIENTS DURING EXCERCISE¹⁶

• Differences in hemodynamic performance even more pronounced

"The titanium stent has intrinsic distensibility, potentially allowing for further expansion of the prosthesis in highload conditions such as exercise."

- Bavaria et al.6



^{*} Content adapted from original article content.

BECAUSE IT'S TIME TO MAKE PPM A THING OF THE PAST.

HEMODYNAMICS MATTER.

PPM MATTERS:

THE CLEAR LINK BETWEEN SEVERE PPM AND MORTALITY

6.5x

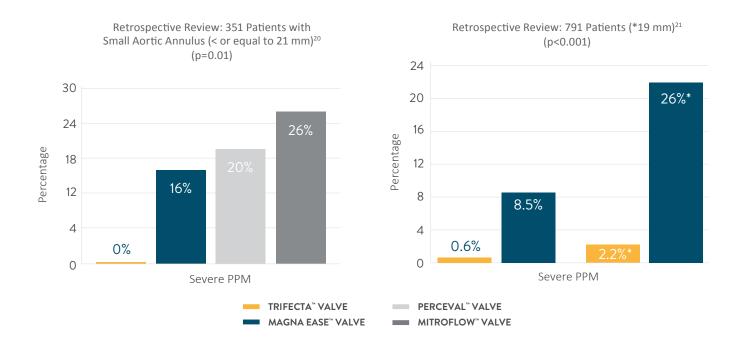
Increase in cardiac-related mortality with severe Patient Prosthesis Mismatch (PPM).¹⁷ <70

For patients under 70 years of age with LV dysfunction, PPM is associated with decreased survival and lower freedom from CHE.18

TRIFECTA™ VALVE:

CONSISTENTLY LOW RATE OF SEVERE PPM

- Meta-analysis across 13 studies with over 2,500 patients finds extremely low 2.7% severe PPM with Trifecta™ Valve¹9
- Significantly lower rate of severe PPM demonstrates advantage over other valves



BECAUSE PATIENTS DEMAND VALVE DURABILITY. HEMODYNAMICS MATTER.

TRIFECTA™ VALVE:

EXCELLENT MID-TERM DURABILITY

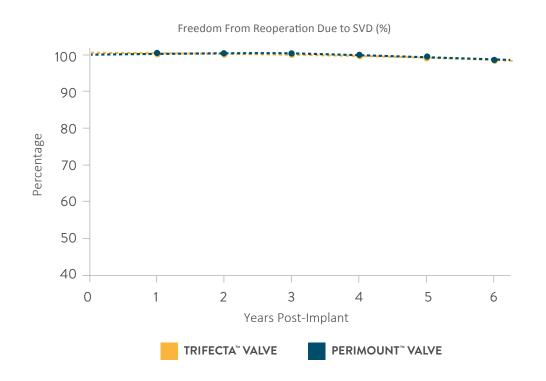
• Consistently excellent clinical durability in multiple mid-term studies

| NORTH AMER | RICA ²² | GERMANY ²³ | | FRANCE ²⁴ | |
|----------------------------------|--------------------|----------------------------------|-----------|----------------------------------|-----------|
| Published Freedom from Reop. SVD | 97.3% | Published Freedom from Reop. SVD | 97.9% | Published Freedom from Reop. SVD | 98% |
| Subjects (n) | 710 | Subjects (n) | 918 | Subjects (n) | 824 |
| Implants Years | 2007-2009 | Implants Years | 2007-2015 | Implants Years | 2008-2014 |
| Patient Years | 2873 | Patient Years | 2357 | Patient Years | 1748 |

TRIFECTA™ VALVE:

ON TRACK FOR EXCELLENT LONG-TERM DURABILITY

• Excellent mid-term durability compared to established aortic valves^{22,25}



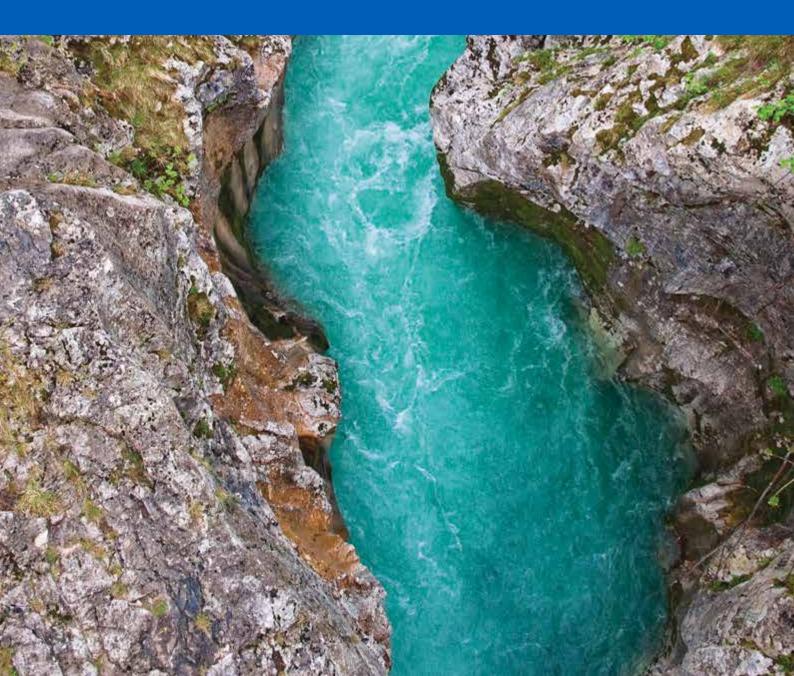
CLEVELAND CLINIC STUDY:

HEMODYNAMICS DETERMINE VALVE DURABILITY

- Increased PPM and higher gradients at implantation linked to valve deterioration and explant, especially in younger patients
- To maximize durability, optimize hemodynamics

"Our data suggest that strategies aimed at minimizing early postoperative gradients, such as use of valves with better effective orifice area...may be warranted..."

- Johnston et al.²⁶



ADVANCING A PROVEN DESIGN TO ENHANCE EASE OF USE

TRIFECTA™ GT VALVE:

BUILT UPON THE TRIFECTA™ PLATFORM

- Improved ease of implantability for minimally-invasive and conventional procedures
- Enhanced ease of placement for challenging approaches and anatomies



SCALLOPED CUFF

 Follows contour of annulus, allowing valve to sit lower in anatomy





TITANIUM BAND

 Enhances strength and improves visualization for future valve interventions



SOFT SEWING CUFF

• Minimizes needle penetration, suture drag, and parachuting forces

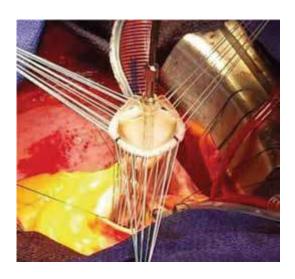


SUTURE MARKERS

 Aids in optimal needle placement and spacing

STREAMLINED VALVE HOLDER

- A 38% reduction in footprint for better access and visibility*
- Screw-in attachment increases handle security
- Single-cut quick-release provides greater efficiency
- Backstops stabilize stent posts and minimize stent deformation during implantation
- Legs positioned in front of the leaflets for added protection



PERICARDIAL LEAFLETS

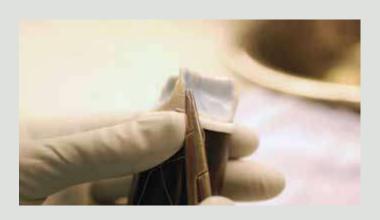
- Exterior mounted leaflets from a single pericardial sheet optimize coaptation
- \bullet LinxAC Antimineralization treatment for valve durability †

PRECISION MANUFACTURING

Ongoing improvements to our manufacturing process demonstrate commitment to advancing patient outcomes.

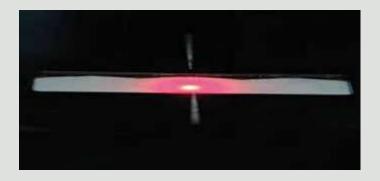
PRECISION CRAFTSMANSHIP

- Bovine pericardium hand-selected for quality
- Multiple operator certifications required for handmade valve production
- Suture depth and placement precisely controlled
- Each valve 100% functionally tested and 200% visually inspected



FIBER ALIGNMENT TECHNOLOGY

- Confirms optimal collagen fiber alignment of the pericardial tissue
- Ensures uniform tissue mechanical properties
- Delivers 3.4x resistance to fatigue related tissue degradation[‡]



TRIFECTA™ GT VALVE

BECAUSE YOUR PATIENTS' LIVES MATTER,

HEMODYNAMICS MATTER.

- Best-in-class gradients and EOAs⁷⁻¹²
- Greater LV mass regression14
- Decreased risk of hospital readmission and heart failure¹⁴
- Improved performance during exercise 15,16
- Consistently low rate of Severe PPM¹⁹⁻²¹
- Excellent durability 22-24



For more information on the TRIFECTA™ GT Valve, contact your Abbott sales representative or visit TrifectaGTvalve.com.

REFERENCES

1. Hahn, RT, Pibarot, P, Stewart, WJ, Weissman, NJ, Gopalakrishnan, D, Keane, MG, ... & Herrmann, HC (2013). Comparison of transcatheter and surgical aortic valve replacement in severeaortic stenosis. JACC, 6(25), 2514-2521. 2. Reardon, MJ, Adams, DH, Kleiman, NS, Yakubov, SJ, Coselli, JS, Deeb, GM, ... & Heiser, J (2015). 2-year outcomes in patients undergoing surgical or self-expanding transcatheter aortic valve replacement. JACC, 66(2), 131-212. 3. Pibarot P, Weissman NJ, Stewart WJ, et al. Incidence and sequelae of prosthesis-patient mismatch in transcatheter versus surgical valve replacement in high-risk patients with severe aortic stenosis: a PARTNER trial cohort-A analysis. *J Am Coll Cardiol.* 2014;64(13):1323-34. 4. Zorn GL III, Little SH, Tadros P, et al. Prosthesis-patient mismatch in high-risk patients with severe aortic stenosis: A randomized trial of a self-expanding prosthesis. *J Thorac Cardiovasc Surg.* 2017;153(6):1302 6. Bavaria JE, Desai ND, Cheung A, et al. The St Jude Medical Trifecta aortic pericardial valve: Results from a global, multicenter, prospective clinical study. *J Thorac Cardiovasc Surg.* 2014;147(2):590-7. 7. Avalus Bioprosthesis: Instructions for Use. Table 8. 8. Edwards Intuity Elite Valve System: Summary of Safety and Effectiveness Data. Table 13. 6. 9. Carpentier-Edwards PERIMOUNT Magna Ease Achieveness Data. Table 12. 11. Edwards Pericardial Aortic Bioprosthesis: Summary of Safety and Effectiveness Data. Table 13. Ruel M, Rubens FD, Masters RG, et al. Late incidence and predictors of persistent or recurrent heart failure in patients with aortic prosthetic valves. *J Thorac Cardiovasc Surg.* 2004;127(1):149-59. 14. Rubens FD, Gee Y, Ngu JM, Chen L, Burwash I. Effect of aortic pericardial valve choice on outcomes and left ventricular mass regression in patients with left ventricular hypertrophy. *J Thorac Cardiovasc Surg.* 2016;152(5):129-1298.e.2. 15. Hanke T, Charitos EL, Paarman H, Stierle U, Sievers HH. Haemodynamic performance of a new pericardial aortic bioprosthesis

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EPIC™ MITRAL

STENTED TISSUE VALVE WITH LINX™ AC TECHNOLOGY



LEAFLET BEHAVIOR AND STENT MECHANICS

Epic. By Design.

FOR NOW AND LATER

Built on the Biocor Platform that has been trusted for over 30 years, the Epic Platform has been reimagined to support options for today and tomorrow.

Curtaining is a characteristic of bioprosthetic valves in which the leaflets, when opened, stand tall or form a "curtain" between stent posts.^{1a}

Epic[™] Mitral leaflets are not prone to curtaining, which can result in less LVOT obstruction.¹a

LEAFLET BEHAVIOR WHEN OPENED



Epic™ Mitral leaflets



C-E PERIMOUNT/ Magna Mitral Ease[‡] pericardial leaflets

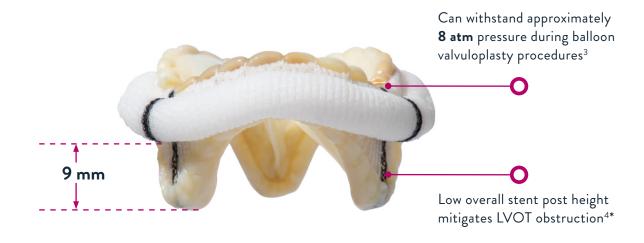


25 mm Epic™ Mitral (left) and Magna Mitral Ease‡ (right) with representative rods inserted



In the bench test, we observed that the pericardial leaflets stand tall unlike the porcine leaflets which crumple. This will result in a greater degree of LVOT obstruction with pericardial leaflets. -Bapat, et al.²

PRESERVING THE LYOT



VENTRICULAR PROTRUSION*

| Epic™ Mitral⁵ | C-E PERIMOUNT Magna Mitral Ease ^{‡6} | Mosaic ^{‡7} |
|---------------|--|----------------------|
| 9 mm | 10.5 mm | 14 mm |
| | | |

66

We observed that it may be the combination of height and type of leaflets—that is, porcine leaflets versus pericardial leaflets—than height alone which may be important. -Bapat, et al.²



EPIC™ SUPRA

AORTIC STENTED TISSUE VALVE

WITH LINX™ AC TECHNOLOGY



Epic. By Design.

IMPLANTABILITY

- FlexFit Stent allows for ease of implant in mini aortic procedures
- The Epic™ Supra silicone-filled cuff allows for supra-annular implantation
- Epic[™] Aortic cuff options allow for secure suture placement while limiting suture drag and parachuting forces

FUTURE FLEXIBILITY

 Can withstand approximately 8 atm pressure during balloon valvuloplasty procedures¹

OPTIMAL STENT-TO-ANNULUS RATIO

Inspired by the proven design of Biocor™, Epic™ Supra provides a larger stent-to-annulus ratio than the Epic™ Aortic Valve.²



LOW AORTIC PROTRUSION



23 mm Epic™ Supra



EXCEPTIONAL DURABILITY,

PROVEN PERFORMANCE

- · Optimal leaflet design minimizes regurgitation
- Pericardial shield reduces abrasion by creating tissue-to-tissue interface
- 20-year Biocor[™] durability data + Epic[™] 10-year durability data shows outstanding Aortic freedom from failure^{3,4}



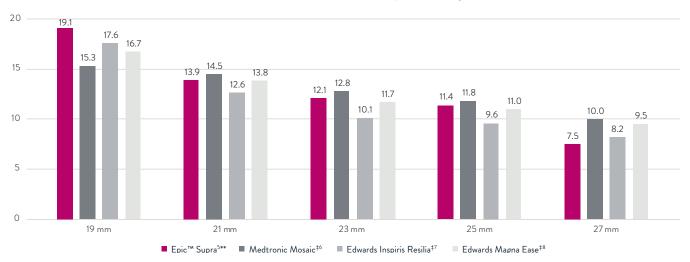




Biocor™ Aortic Freedom from SVD at 20 years⁴

STRONG IN VIVO HEMODYNAMICS

Mean Pressure Gradients at 1 year (mmHg)*



*NOTE: For references 5–8, data not from head-to-head studies. Data differences depicted between these trials may not be directly comparable, statistically significant, or clinically meaningful due to differences in trial protocols, endpoints, and/or patient populations. Data provided for informational purposes only.
**Pressure Gradients approximated through Epic™ Aortic SSED data matched with stent size equivalencies for the Epic™ Supra. Per Abbott Internal engineering specifications, a 19 mm Epic™ Supra has the same stent size as a 21 mm Epic™ Aortic and this relationship continues across all Epic™ Supra valve sizes.

ABBOTT MECHANICAL HEART VALVES

Regent, Masters HP and Masters





CONFIDENTLY
IMPLANT
THE MOST
TRUSTED
MECHANICAL
VALVES
IN THE WORLD

3 MILLION PATIENTS
TREATED WITH ABBOTT
MECHANICAL HEART VALVES

MORE THAN 1,000
PEER-REVIEWED
PUBLICATIONS PROVIDE
EVIDENCE FOR ABBOTT
MECHANICAL HEART VALVES

LOW THROMBOGENICITY AND EXCELLENT PATIENT OUTCOMES

PROVEN DESIGN
TO RESTORE NATIVE VALVE
HEMODYNAMICS

AN ABBOTT HALLMARK

Featured in all Abbott Mechanical Heart Valves the unique Pivot Guard Design offers benefits both during implant and post-implant.





Shields pivot mechanism from pannus ingrowth



Minimizes interaction with sub-annular native valve apparatus in the mitral position and ensure coronary ostia clearance in the aortic position



Enables for an 85° leaflet opening angle, minimizing leaflet flutter and leading to smoother laminar flow trhough the orifice*



Can lessen thrombus formation by minimizing carbon surface area and thanks to the washout flow through the hinges*

FIND OUT MORE
ON ABBOTT
MHV DESIGN

2017 ESC/EACTS GUIDELINES

PATIENT AGE MECHANICAL VALVE BLEEDING EVENTS VALVE REINTERVENTION * 40 45 50 55 60 65 70 75 > MECHANICAL EITHER VALVES TISSUE TISSUE

Target INR for mechanical prostheses

| Prosthesis | Patient-related factors | | |
|---------------------|-------------------------|----------------|--|
| thrombogenicity | None | ≥l risk factor | |
| Low^b | 2.5 | 3.0 | |
| Medium ^c | 3.0 | 3.5 | |
| High ^d | 3.5 | 4.0 | |

INR = international normalized ratio; LVEF = left ventricular ejection fraction.

- Mitral or tricuspid valve replacement; previous thromboembolism; atrial fibrillation; mitral stenosis of any degree; LVEF <35%.</p>
- ^b Carbomedics, Medtronic Hall, ATS, Medtronic Open-Pivot, St Jude Medical, OnX, Sorin Bicarbon.
- ^c Other bileaflet valves with insufficient data.
- ^d Lillehei-Kaster, Omniscience, Starr-Edwards (ball-cage), Bjorik-Shiley and other tilting-disc valves.

OPERATEWITH THE FACTS

ABBOTT MECHANICAL HEART VALVES
SHOW LOWER THROMBOEMBOLISM, THROMBOSIS
AND BLEEDING EVEN AT A LOW INR RANGE

INR 1.5 _______ 2.0 ______ 2.5

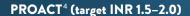
LOWERING-IT² (target INR 1.5-2.5)

Randomized Study 197 patients implanted* (44 with Abbott valves, 153 with LivaNova valves), 5 years

Thromboembolism 0.09%/pt-year
Thrombosis 0%/pt-year
Bleeding Events 0.56%/pt-year



Thromboembolism 0%/pt-year, 0.58%/pt-year***
Bleeding Events 0.58%/pt-year, 1.07%/pt-year[†]



Randomized Study 375 patients (all On-X Valves), 3 years

Thromboembolism 2.67%/pt-year Bleeding Events 2.67%/pt-year



*44/197 patients in the Lowering-IT study were implanted with Abbott Valves. **This was further stratified into a control group, a very low INR (monitored 1x weekly), and a very low INR (monitored 2x weekly) group. ***Thromboembolic events for VL1 and VL2 groups are listed together, respectively. *Bleeding events for VL1 and VL2 groups are listed together, respectively.

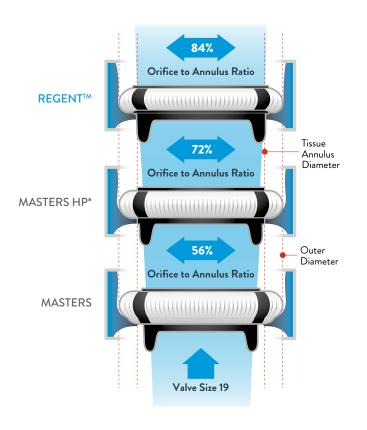
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FIND OUT MORE
ON LOW INR
CLINICAL EVIDENCE

A BROAD RANGE OF SOLUTIONS TO TAILOR THE IMPLANTATION TO EVERY PATIENT

AORTIC VALVE



Regent

EXCEPTIONAL HEMODYNAMICS
IN THE AORTIC POSITION IN SMALL
AORTIC ROOT PATIENTS

Masters HP

HEMODYNAMICS MEETS
IMPLATABILITY IN BOTH THE
AORTIC AND MITRAL POSITION,
NOW AVAILABLE ALSO FOR BABIES
AND NEWBORNS

Masters

OPTIMAL IMPLANTABILITY IN BOTH THE AORTIC AND MITRAL POSITION

FIND OUT HOW TO MINIMIZE AV BLOCK
WHEN IMPLANTING
A MECHANICAL HEART VALVE

TREATING THE TINIEST PATIENTS INCLUDING NEWBORNS AND BABIES IS NOW POSSIBLE...

with the worlds's smallest mechanical heart valves



15mm MASTERS HP
MITRAL AND AORTIC VALVE



VALVE ORDERING GUIDE

STANDARD CUFF

FLEXCUFF

EXPANDED CUFF

PTFE

EXPANDED PTFE

Compact, double velour Dacron

Flanged and more conformable than the standard

Easy to suture with

AORTIC VALVE

| | REGENT | ™ VALVE | MASTERS HP Series | | ٨ | NASTERS Serie | ·S |
|-----------|---------------|-------------------------|-------------------|-------------------|---------------|-------------------|-----------|
| SIZE (MM) | STANDARD CUFF | FLEXCUFF ^{™ 4} | STANDARD CUFF | EXPANDED CUFF 1,3 | STANDARD CUFF | EXPANDED CUFF 1,3 | PTFE |
| 15 | | | 15AHPJ-505 | | | | |
| 17 | 17AGN-751 | 17AGFN-756 | 17AHPJ-505 | 17AEHPJ-505 | | | |
| 19 | 19AGN-751 | 19AGFN-756 | 19AHPJ-505 | 19AEHPJ-505 | 19AJ-501 | 19AECJ-502 | 19ATJ-503 |
| 21 | 21AGN-751 | 21AGFN-756 | 21AHPJ-505 | 21AEHPJ-505 | 21AJ-501 | 21AECJ-502 | 21ATJ-503 |
| 23 | 23AGN-751 | 23AGFN-756 | 23AHPJ-505 | 23AEHPJ-505 | 23AJ-501 | 23AECJ-502 | 23ATJ-503 |
| 25 | 25AGN-751 | 25AGFN-756 | 25AHPJ-505 | 25AEHPJ-505 | 25AJ-501 | 25AECJ-502 | 25ATJ-503 |
| 27 | 27AGN-751 | 27AGFN-756 | 27AHPJ-505 | 27AEHPJ-505 | 27AJ-501 | 27AECJ-502 | 27ATJ-503 |
| 29 | 29AGN-751 | 29AGFN-756 | | | 29AJ-501 | 29AECJ-502 | 29ATJ-503 |
| 31 | | | | | 31AJ-501 | 31AECJ-502 | 31ATJ-503 |

MITRAL VALVE

| | MASTERS HP Series | MASTERS Series | | | |
|-----------|----------------------|----------------|-------------------|-----------|----------------------------|
| SIZE (MM) | STANDARD CUFF | STANDARD CUFF | EXPANDED CUFF 1,3 | PTFE | EXPANDED PTFE ² |
| 15 | 15MHPJ-505 | | | | |
| 17 | 17MHPJ-505 | | | | |
| 19 | 19MHPJ-505 | 19MJ-501 | 19MECJ-502 | 19MTJ-503 | 19METJ-504 |
| 21 | 21MHPJ-505 | 21MJ-501 | 21MECJ-502 | 21MTJ-503 | 21METJ-504 |
| 23 | 23MHPJ-505 | 23MJ-501 | 23MECJ-502 | 23MTJ-503 | 23METJ-504 |
| 25 | 25MHPJ-505 | 25MJ-501 | 25MECJ-502 | 25MTJ-503 | 25METJ-504 |
| 27 | 27MHPJ-505 | 27MJ-501 | 27MECJ-502 | 27MTJ-503 | 27METJ-504 |
| 29 | | 29MJ-501 | 29MECJ-502 | 29MTJ-503 | 29METJ-504 |
| 31 | | 31MJ-501 | 31MECJ-502 | 31MTJ-503 | 31METJ-504 |
| 33 | | 33MJ-501 | 33MECJ-502 | 33MTJ-503 | 33METJ-504 |
| 35 | | 35MJ-501 | | | |
| 37 | | 37MJ-501 | | | |

The Expanded Aortic and Mitral Cuff has approximately 25% more cuff material than the standard cuff, for even more anatomic accommodation.
 The Expanded PTFE Cuff easy to suture with 16% more material, for extra anatomical conformability
 The Expanded HP Cuff has approximately 15% more cuff than the HP Series cuff.

ACCESSORIES ORDERING GUIDE

MECHANICAL VALVE SIZER SETS AND ACCESSORIES

| Model No. | DESCRIPTION |
|-----------|---|
| 905 | Universal Sizer Set contains 17-33 mm valve sizers and valve holder handle model 905-HH. |
| 905-15 | Mitral and Aortic Double-Ended Sizer for Masters HP 15 mm. |
| 905-35 | 35mm Masters Series valve sizer. |
| 905-37 | 37mm Masters Series valve sizer. |
| 905-MHH | Mitral valve holder handle. |
| 905-RHH | Rigid valve holder handle. |
| 907 | Regent Sizer Set contains 17-29mm valve sizers and valve holder handle model 905-HH. |
| A-RHR | Contains sizes 19mm-31mm aortic Masters Series holder/rotators. |
| M-RHR | Contains sizes 19mm-37mm mitral Masters Series holder/rotators. |
| AHP-RHR | Contains sizes 17mm-27mm Masters Series Hemodynamic Plus holder/rotators. |
| AG-RHR | Contains sizes 17mm-29mm RegentTM holder/rotators. |
| LT100 | Mechanical valve leaflet tester. |

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- $1. \ \ European\ Heart\ Journal,\ Volume\ 38,\ Issue\ 36,\ 21\ September\ 2017,\ Pages\ 2739-2791,\ https://doi.org/10.1093/eurheartj/ehx391$
- 2. Torella, Michele, et al. "LOWERing the INtensity of oral anticoaGulant Therapy in patients with bileaflet mechanical aortic valve replacement: results from the "LOWERING-IT" Trial." American heart journal 160.1 (2010): 171-178.
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- 4. Puskas JD et al. Reduced anticoagulation after mechanical aortic valve replacement: interim results from the prospective randomized on-X valve anticoagulation clinical trial randomized Food and Drug Administration investigational device exemption trial. J Thorac Cardiovasc Surg 2014;147:1202-11

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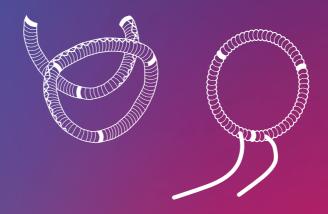
©2021 Abbott. All rights reserved. 9-EH-1-12392-01 06-2021





MITRAL VALVE REPAIR SOLUTIONS

A comprehensive portfolio of mitral valve repair products from a single source.







Abbott's customizable repair products are suitable for implant using open sternotomy and minimally invasive approaches such as robotic surgery.



Tailor Flexible Ring and Band

The Tailor Flexible Annuloplasty
Ring and Band are designed to
maintain the size of a repaired mitral
or tricuspid annulus while sustaining
physiologic movement.

- Customizable ring design can be tailored to address specific patient needs
- Pre-cut C band provides time savings simplicity



Attune[™] Flexible Adjustable Ring

The symmetrical and asymmetrical adjustability of the Attune Ring allows the size and shape to be fine-tuned.

- The ability to make small adjustments to the ring after placement is designed to help eliminate residual mitral regurgitation
- Independent adjustability allows the annuloplasty to be localized to one side



Séguin Semi-Rigid Ring

The Séguin Semi-Rigid Ring provides surgeons a combination of rigidity and flexibility for mitral valve repair.

- Solid one-piece core resists needle penetration and reduces potential for suturing through the core
- More rigid anterior allows for annular remodeling
- One-step push button handle release simplifies the implantation process



Rigid Saddle Ring

A natural saddle-shaped ring designed for durable and complete remodeling.

- Titanium alloy core maintains anatomical shape and provides annular remodeling
- Saddle shape contributes to efficient distribution of leaflet stress and chordal tension¹⁻³

See Important Safety Information referenced within.

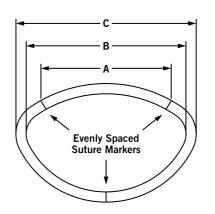
© 2021 Abbott. All rights reserved. MAT-2102962 v1.0 | Item approved for U.S. use only.

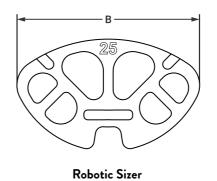
TAILOR FLEXIBLE RING AND BAND

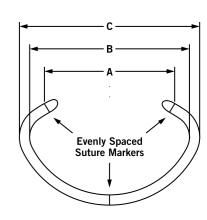
| Ring Model Number | Band Model Number | Ring Size (mm) | Intertrigonal Dimension [A] (mm) | Inside Dimension [B] (mm) | Outside Dimension [C] (mm) |
|-------------------|-------------------|----------------|-------------------------------------|------------------------------|-------------------------------|
| TARP-25 | TAB-25 | 25 | 25 | 29 | 34 |
| TARP-27 | TAB-27 | 27 | 27 | 31 | 37 |
| TARP-29 | TAB-29 | 29 | 29 | 34 | 40 |
| TARP-31 | TAB-31 | 31 | 31 | 36 | 42 |
| TARP-33 | TAB-33 | 33 | 33 | 39 | 45 |
| TARP-35 | TAB-35 | 35 | 35 | 41 | 46 |

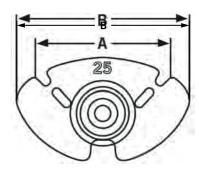
ACCESSORIES

| Model Number | Contents |
|--------------|---|
| TAR-505 | Tailor Annuloplasty Ring Sizer Set One (1) malleable holder handle One (1) extension handle Six (6) sizers (25, 27, 29, 31, 33, 35) One (1) autoclavable tray for storage of components |
| TAR-510R | Tailor and Attune™ Ring Robotic Sizer Set Six low-profile robotic sizers in autoclavable tray |
| HH-05 | Replacement Holder Handle |
| EX-05 | Replacement Extension Handle |









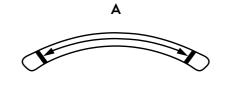
Handled Sizer

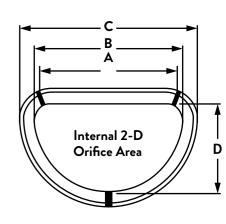
RIGID SADDLE RING

| Ring Model Number | Ring Size [A] (mm) | Commissure Dimension [A] (mm) | Inside Dimension [B] (mm) | Outside Dimension [C] (mm) | A-P Dimension [D] (mm) | Internal 2-D Orifice Area (mm²) |
|----------------------|--------------------------|-------------------------------------|---------------------------------|----------------------------------|------------------------------|---------------------------------------|
| RSAR-24 | 24 | 24 | 22 | 30 | 21 | 227 |
| RSAR-26 | 26 | 26 | 24 | 32 | 23 | 276 |
| RSAR-28 | 28 | 28 | 26 | 34 | 24 | 331 |
| RSAR-30 | 30 | 30 | 28 | 36 | 25 | 387 |
| RSAR-32 | 32 | 32 | 30 | 38 | 27 | 450 |
| RSAR-34 | 34 | 34 | 32 | 40 | 28 | 511 |

ACCESSORIES

| Model/Reorder Number | Contents |
|----------------------|--|
| RSAR-507A | RSAR Sizer Set Complete One (1) malleable holder handle One (1) extension handle Six (6) sizers (24, 26, 28, 30, 32, 34) One (1) autoclavable tray for storage of components One (1) autoclavable tray cover |
| HH-05 | Replacement Holder Handle |
| EX-05 | Replacement Extension Handle |



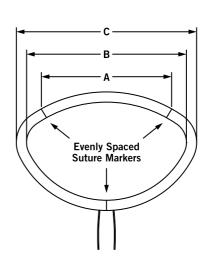


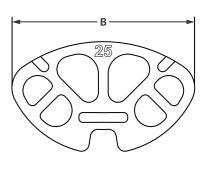
ATTUNE™ FLEXIBLE ADJUSTABLE RING

| Model/Reorder Number | Ring Size | Fixed Dimension [A] (mm) | Ring Inner Dimension [B] (mm) | Ring Outer Dimension [C] (mm) |
|-------------------------|--------------|-----------------------------|-------------------------------|-------------------------------|
| AFR-25 | 25 | 25 | 28 | 33 |
| AFR-27 | 27 | 27 | 31 | 36 |
| AFR-29 | 29 | 29 | 34 | 39 |
| AFR-31 | 31 | 31 | 37 | 42 |
| AFR-33 | 33 | 33 | 40 | 44 |
| AFR-35 | 35 | 35 | 41 | 46 |
| AFR-37 | 37 | 37 | 44 | 49 |
| AFR-39 | 39 | 39 | 46 | 51 |
| AFR-41 | 41 | 41 | 49 | 54 |
| AFR-43 | 43 | 43 | 52 | 57 |

ACCESSORIES

| Model/Reorder Number | Products | Contents |
|----------------------|---|---|
| TAR-505 | Tailor Annuloplasty Ring Sizer Set | 6 handled sizers, 1 holder handle and 1 extension handle in autoclavable tray |
| TAR-510R | Tailor and Attune Ring Robotic Sizer Set | 10 low-profile robotic sizers in autoclavable tray |
| HH-05 | Replacement Holder Handle | Holder handle for TAR-505 |
| EX-05 | Replacement Extension Handle | Extension handle for TAR-505 |



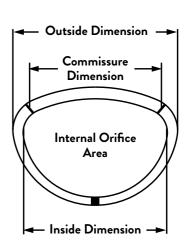


SÉGUIN SEMI-RIGID RING

| Ring Model Number | Ring Size | Inside Dimension | Outside Dimension | Commissure Dimension | Internal Orifice Dimension |
|----------------------|--------------|---------------------|----------------------|-------------------------|-------------------------------|
| SARP-24 | 24 mm | 22 mm | 29 mm | 24 mm | 284 mm ² |
| SARP-26 | 26 mm | 24 mm | 31 mm | 26 mm | 334 mm ² |
| SARP-28 | 28 mm | 27 mm | 34 mm | 28 mm | 403 mm ² |
| SARP-30 | 30 mm | 28 mm | 35 mm | 30 mm | 463 mm ² |
| SARP-32 | 32 mm | 30 mm | 37 mm | 32 mm | 541 mm ² |
| SARP-34 | 34 mm | 34 mm | 41 mm | 34 mm | 602 mm ² |
| SARP-36 | 36 mm | 35 mm | 43 mm | 36 mm | 644 mm ² |
| SARP-38 | 38 mm | 37 mm | 45 mm | 38 mm | 735 mm ² |
| SARP-40 | 40 mm | 39 mm | 46 mm | 40 mm | 815 mm ² |

ACCESSORIES

| Model/Reorder Number | Contents | |
|----------------------|---|--|
| SAR-501 | Séguin Annuloplasty Ring Sizer Set One (1) malleable holder handle One (1) extension handle Nine (9) mitral sizers (24, 26, 28, 30, 32, 34, 36, 38, 40) One (1) autoclavable tray for storage of components One (1) autoclavable tray cover | |
| HH-05 | Replacement Holder Handle | |
| EX-05 | Replacement Extension Handle | |





Pericardial Patch WITH ENCAPTM AC TECHNOLOGY

ENHANCED BIOCOMPATIBILITY FOR LASTING PERFORMANCE

The Pericardial Patch with EnCap AC Technology* combines strong, durable bovine pericardium with a proprietary anti-calcification treatment, making it suitable for a variety of cardiac repairs while offering improved handling and enhanced biocompatibility.



IMPROVED HANDLING AND SUTURABILITY SUPPORT CARDIOVASCULAR REPAIR

- Ready-to-use, rinseless preparation saves time during procedures.
- Bovine pericardium provides improved handling and suturability compared with synthetic patches.¹
- The strength of glutaraldehyde-fixed tissue enhances durability and helps resist undesirable changes such as patch shrinkage and aneurysm formation, even in high-stress repairs.²⁻⁶
- Soft, pliable tissue conforms to anatomy and sutures into place with minimal leaking along suture line.

ANTI-CALCIFICATION TREATMENT ENHANCES BIOCOMPATIBILITY AND DURABILITY

- Proprietary EnCap AC Technology caps residual aldehydes to reduce antigenicity and cytotoxicity. 5.7,8
- Resists calcification and promotes rapid binds, thorough healing with endothelial cell covering. 7-10
- $\bullet \quad \text{Improved endothelialization strengthens the reconstruction or repair, helping reduce calcification and other degeneration.}^{7-9} \\$

APPROPRIATE FOR A WIDE RANGE OF CARDIAC AND VASCULAR REPAIRS⁸

- Annular reconstruction³
- Endocarditis leaflet repairs
- Septal defect repairs
- Aortic root enlargement
- Other vascular repairs.



ORDERING INFORMATION

Pericardial Patch

| Model Number | Patch Size (cm) | Nominal Thickness (mm) |
|-----------------|--------------------|---------------------------|
| C0205 | 2 x 5 | 0.20 - 0.40 |
| C0405 | 4 x 5 | 0.15 - 0.25 |
| C0510 | 5 x 10 | 0.20 - 0.40 |
| C0914 | 9 x 14 | 0.20 - 0.40 |

All sizes not currently available in all markets.

References:

- Crawford FA Jr, Sade RM, Spinale F. Bovine pericardium for correction of congenital heart defects. Ann Thorac Surg. 1986;41(6):602-5.
- Crawford FA Jr, Sade KM, Spinae F. Bovinie Percardumin for Correction of Congenital near detectes. Anni Tonac Surg. 1980;41(6):602-5.

 Frater RWM, Vetter HO, Zussa C, et al. Chordal replacement in mitral valve repair. Circulation. 1990;82[suppl IV]:IV-125-IV-130.

 David TE, Feindel CM, Armstrong, S, et al. Reconstruction of the mitral annulus: a ten-year experience. J Thorac Cardiovasc Surg. 1995;110(5):1323-32.

 Bjornstad K, Duran RM, Nassau KG, et al. Clinical and echocardiographic follow-up after aortic valve reconstruction with bovine or autologous pericardium. Am Heart J. 1996;132(6):1173-8.

 Gong G, Seifter E, WD Lyman, et al. Bioprosthetic cardiac valve degeneration: role of inflammatory and immune reactions. J Heart Valve Dis. 1993;2(6):684-93. 4

- Gong G, Ling Z, Seifter E, et al. Aldehyde tanning: the villain in bioprosthetic calcification. Eur J Cardiothorac Surg. 1991;5:288-99.

 Frater RWM, Seifter E, Liao K, et al. Anticalcification, proendothelial, and anti-inflammatory effect of post-aldehyde polyol treatment of bioprosthetic material. In: Gabbay S, Wheatley DJ (eds.). Advances in Anticalcific and Antidegenerative Treatment of Heart Valve Bioprostheses. Austin, TX: Silent Partners Inc; 1997:105-14.
 Frater RWM, Liao K, Seifter E. Stentless chordally supported mitral bioprosthetic valve. In: Gabbay S, Frater RWM (eds.) New Horizons and the Future of Heart Valve Bioprostheses. Austin, TX:
- Silent Partners Inc; 1994:103-19.
- Hoffman D, Gong G, Liao K, et al. Spontaneous host endothelial growth on bioprostheses. Circulation. 1992;86[suppl II]:II-75-II-79.
- Moritz A, Grimm M, Eybl E, et al. Improved spontaneous endothelialization by postfixation treatment of bovine pericardium. Eur J Cardiothorac Surg. 1991;5:155-9.





NAVITOR™ TAVI SYSTEM

Smart Sealing. Exceptional Stability.
Uncompromised Access.



OVERVIEW

NavitorTM TAVI System



SMART SEALING. EXCEPTIONAL STABILITY. UNCOMPROMISED ACCESS.

Navitor™ TAVI system offers intelligent design advantages, including smart PVL-sealing NaviSeal™ Cuff, stable and accurate placement, exceptional single-digit gradients,1 and uncompromised small vessel access and coronary access to consistently achieve excellent outcomes across a spectrum of routine to challenging anatomies.



EXCELLENT OUTCOMES.

30-DAY1

SEVERE TO

MODERATE PVL

ALL CAUSE **MORTALITY**

0%

0.8%

DISABLING

STROKE

0.8% MAJOR VASCULAR **7.4**mmHg

COMPLICATIONS GRADIENT

1. Abbott data on file CL1014440.

Information contained herein for DISTRIBUTION outside of the U.S. ONLY. Always check the regulatory status for the device in your region.

MEAN

NavitorTM Valve Design Features

Curved Aortic Cells

Reduces risk of injury to native structures

Inner NaviSeal™ Cuff

Fabric material maintains low profile

Outer NaviSeal Cuff

Actively synchronizes to the cardiac cycle to seal and mitigate PVL

Large Cell Design

Minimizes coronary obstruction and improves coronary access and flow

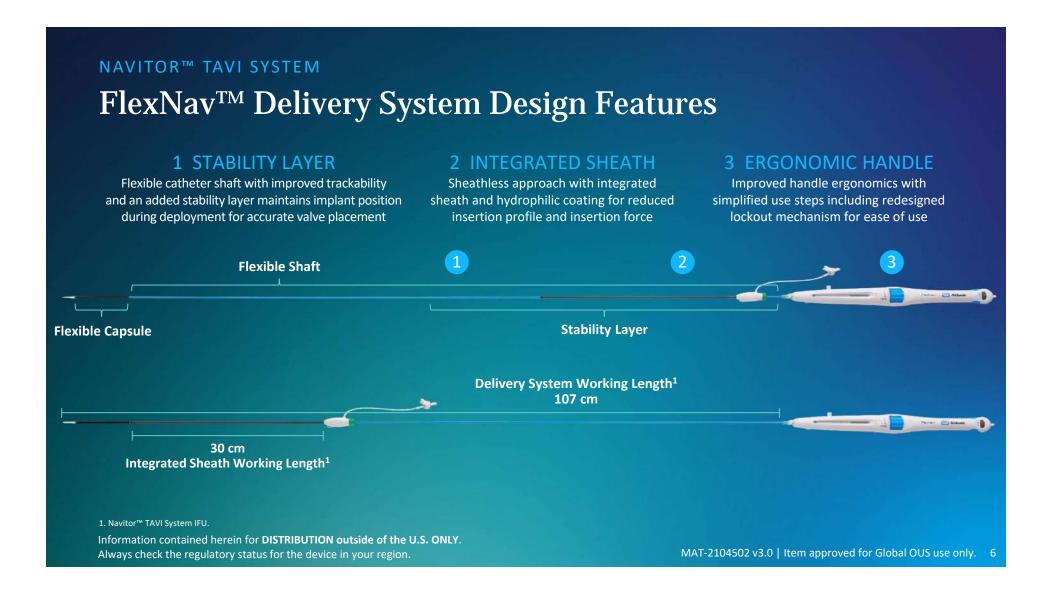
Optimized Radial Force

For expansion, anchoring, stability and sealing

Increased Sealing Zone Mitigates PVL

Annulus Treatment Range

Treats 19 mm to 27 mm Annulus Diameters



NavitorTM TAVI System Components & Specifications¹

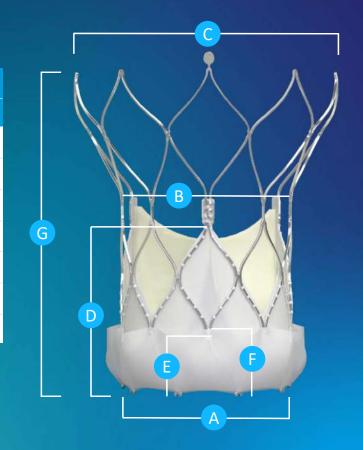
| Catalog Numbers | | | | | | |
|---------------------------------------|---|---------------------------------|--|---------------------------|---|-------------------------|
| Navitor™ Valve | | F | FlexNav™ Delivery System | | Navitor™ Loading System | |
| NVTR-23 (23mm) or NVTR-25 (25mm) | | | FNAV-DS-SM | FNAV-DS-SM NVTR-LS-SM | | SM |
| NVTR-27 (27mm) or NVTR-29 (29mm) | | | FNAV-DS-LG | V-DS-LG NVTR-LS-LG | | LG |
| Valve Catalog Number Annulus Diameter | | s Diameter | Ascending Aorta Diameter Area Perin | | Perimeter | |
| NVTR-23 | 19 - | - 21 mm | 26 - 36 mm | 277 - 346 | 5 mm² | 60 - 66 mm |
| NVTR-25 | 21 - | - 23 mm | 28 - 38 mm | 338 - 415 | 5 mm² | 66 - 73 mm |
| NVTR-27 | 23 - | - 25 mm | 30 - 40 mm | 405 - 491 | 405 - 491 mm² | |
| NVTR-29 | 25 - | - 27 mm | 32 - 42 mm | 479 - 573 | 3 mm ² | 79 - 85 mm |
| Delivery System Catalog Numbers | Equivalent Integrated Sheath Diameter | Valve Capsule Outer Diameter | Integrated Sheath Working Length | Delivery System Length | Minimum Vessel Diameter Requirement | Compatible Guidewire |
| FNAV-DS-SM | 14 F | 6.0 mm | 30 cm | 107 cm | ≥ 5.0 mm | 0.035" (0.89 mm) |
| FNAV-DS-LG | 15 F | 6.3 mm | 30 cm | 107 cm | ≥ 5.5 mm | 0.035" (0.89 mm) |

^{1.} Navitor™ TAVI System IFU.

NavitorTM Valve Dimensions¹

| DIMENSION DESCRIPTION | | VALVE SIZE | | | |
|---------------------------|-------|------------|-------|-------|--|
| (mm) | 23 mm | 25 mm | 27 mm | 29 mm | |
| A Valve Inflow Diameter* | 23 | 25 | 27 | 29 | |
| B Valve Outflow Diameter* | 23 | 25 | 27 | 29 | |
| C Aortic Stent Diameter* | 41 | 43 | 44 | 46 | |
| D Commissure Height* | 21 | 23 | 24 | 25 | |
| E Half Cell Height* | 7 | 7 | 8 | 8 | |
| F NaviSeal™ Cuff Height*† | 9 | 9 | 10 | 10 | |
| G Stent Height* | 47 | 48 | 48 | 48 | |

^{*} Dimensions at fully expanded and unconstrained stent.



[†] Outer cuff portion.

IN-DEPTH REVIEW NavitorTM Valve

Smart Sealing | Exceptional Hemodynamics | Uncompromised Coronary Access

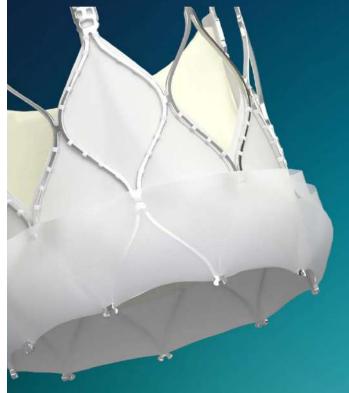


INTELLIGENT DESIGN.

Advancing the forefront of innovative design, the Navitor™ valve brings together smart PVL-sealing technology, exceptional single-digit gradients,1 and uncompromised coronary access to achieve excellent clinical outcomes.

1. Abbott data on file CL1014440.

Smart Sealing



NaviSeal™ Cuff actively synchronizes to the cardiac cycle, seals, and mitigates PVL¹ by expanding to fill calcification-related gaps between the annulus and the valve. By combining an outer cuff with increased sealing zone height and optimized radial force, the NaviSeal Cuff improves sealing and mitigates PVL.

SMART SEALING MITIGATES PVL

30-DAY ECHO CORE LAB DATA1

80% NONE/TRACE

MILD

0%

MODERATE

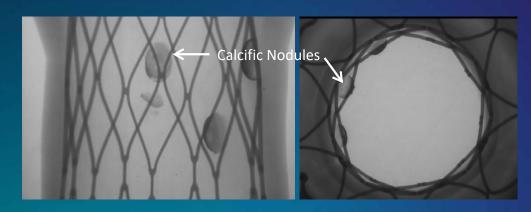
0%

SEVERE

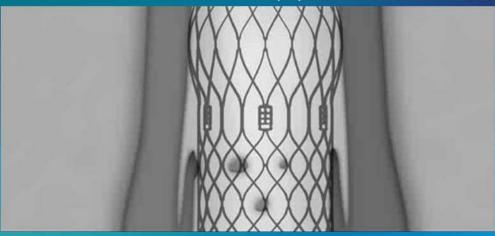
1. Abbott data on file CL1014440.

Smart Sealing

Large cells and NaviSeal™ cuff conformability, high fabric to stent ratio, and optimized radial force designed to conform around calcific nodules.



Click video to play



Calcific Nodule Conformability Simulation

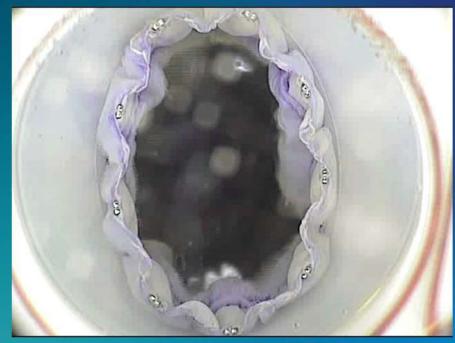
Smart Sealing

Conformable stent frame optimizes leaflet coaptation1* designed to function in circular and elliptical configurations.

Durability, coaptation and hemodynamics assessed in both round and elliptical configurations.

In-vitro testing meets durability requirements after > 200 million cycles in round and elliptical annuli.1

Click video to play



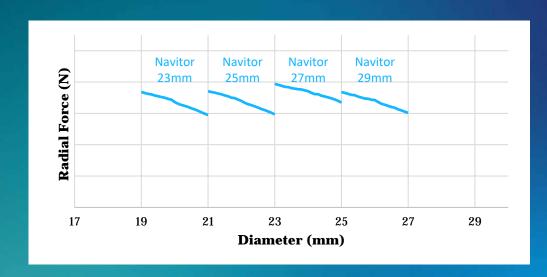
^{*}Compared to less-conformable self-expanding valve platforms

^{1.} Abbott data on file 90440160.

Smart Sealing

Optimized radial force offers consistent and predictable anchoring and sealing across valve sizes and corresponding use ranges.1



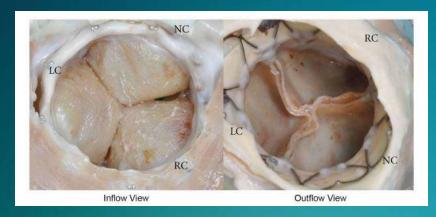


1. Abbott data on file CL1007744.

Smart Sealing

90-day GLP preclinical pathology and histopathology study:

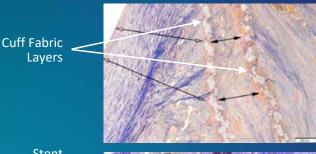
- Optimal healing and no adverse calcification or thrombosis altering cusp motion.
- No excessive neointima growth, ischemic changes or emboli in the brain.
- Valve cusps were flexible with optimal conformation and coaptation and without degradation (no tears or fenestrations).



1. Abbott data on file 90459999, 90368700

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MICROSCOPIC FABRIC ANALYSIS



Stent **Cuff Fabric** Layers

> Magnified short axis valve section shows mature fibrocellular neointima (solid black arrows) between valve cuff fabric layers (white arrows)

Smart Sealing

| PVL 30-DAY ECHO CORE LAB DATA | NAVITOR™¹ N=118 | EVOLUT [‡] PRO ² N=58 | ACURATE NEO2 ^{‡3} N=100 | SAPIEN [‡] 3 ⁴ N=113* |
|----------------------------------|--------------------|--|--|--|
| None/Trace | 79.7% | 72.4% | 35.0% | 74.3% |
| Mild | 20.3% | 27.6% | 62.0% | 22.1% |
| Moderate | 0.0% | 0.0% | 3.0% | 3.5% |
| Severe | 0.0% | 0.0% | 0.0% | 0.0% |

PVL IMPACT.

Moderate or greater PVL increases 1-year mortality and rehospitalization

2.4x-2.7x

following TAVI⁵

Based on number of subjects with data evaluable by the echo core lab.

NOTE: Data not from head-to-head studies. Data differences depicted between these trials may not be directly comparable, statistically significant, or clinically meaningful due to differences in trial protocols, endpoints, and/or patient populations. Data provided for informational purposes only.

NOTE: Referenced data reflect results from prospective, multicenter clinical studies with contemporary valves in high and extreme risk surgical patients conducted to support CE Mark approval.

- * Includes data on subjects implanted via transapical and transaortic access
- 1. Abbott data on file CL1014440.
- 2. Forrest JK, et al. Outcomes with the Evolut PRO repositionable self-expanding transcatheter aortic valve with pericardial wrap. J Am Coll Cardiol Intv. 2018;11:160-168.
- 3. Möllmann H. Transcatheter aortic valve implantation for severe aortic stenosis with the Acurate neo2 valve system: 30-day safety and performance outcomes. Abstract presented at: PCR London Valves; September 10,
- 4. Webb J, et al. Multicenter evaluation of a next-generation balloon-expandable transcatheter aortic valve. J Am Coll Cardiol. 2014;64:2235-43.
- 5. Pibarot P, et al. Assessment of paravalvular regurgitation following TAVR: a proposal of unifying grading scheme. JACC Cardiovasc Imaging. 2015;8(3):340-360. doi: 10.1016/j.jcmg.2015.01.008. PMID: 25772838.

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Exceptional Hemodynamics

Large effective orifice areas, single digit gradients¹ single-digit gradients.1

30-DAY ECHO CORE LAB DATA¹

2.0 cm² 7.4 mmHg MEAN GRADIENT

HEMODYNAMIC IMPACT.

Non-tapered stent and large EOAs resulting in single-digit gradients are associated with improved cardiac function, long-term durability, and minimal prosthesis-patient mismatch.1



Exceptional Hemodynamics

| 30-DAY ECHO CORE LAB DATA | NAVITOR™ ¹ | EVOLUT [‡] PRO ² | ACURATE NEO2 ^{‡3} | SAPIEN [‡] 3 ⁴ |
|------------------------------|-----------------------|--------------------------------------|----------------------------|------------------------------------|
| Mean Gradient (mmHg) | 7.4 (N=118) | 6.4 (N=55) | 7.9 (N=104) | 10.6 (N=119*) |
| EOA (cm²) | 2.0 (N=101) | 2.0 (N=47) | 1.7 (N=99) | 1.5 (N=97*) |

Based on number of subjects with data evaluable by the echo core lab.

NOTE: Data not from head-to-head studies. Data differences depicted between these trials may not be directly comparable, statistically significant, or clinically meaningful due to differences in trial protocols, endpoints, and/or patient populations. Data provided for informational purposes only.

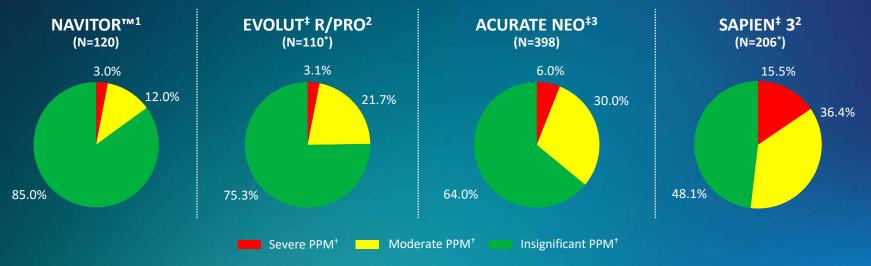
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- 3. Möllmann H. Transcatheter aortic valve implantation for severe aortic stenosis with the Acurate neo2 valve system: 30-day safety and performance outcomes. Abstract presented at: PCR London Valves; September 10,
- 4. Webb J, et al. Multicenter evaluation of a next-generation balloon-expandable transcatheter aortic valve. J Am Coll Cardiol. 2014;64:2235-43.

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Exceptional Hemodynamics

Low Incidence of Prosthesis-Patient Mismatch (PPM) – 30 Day¹



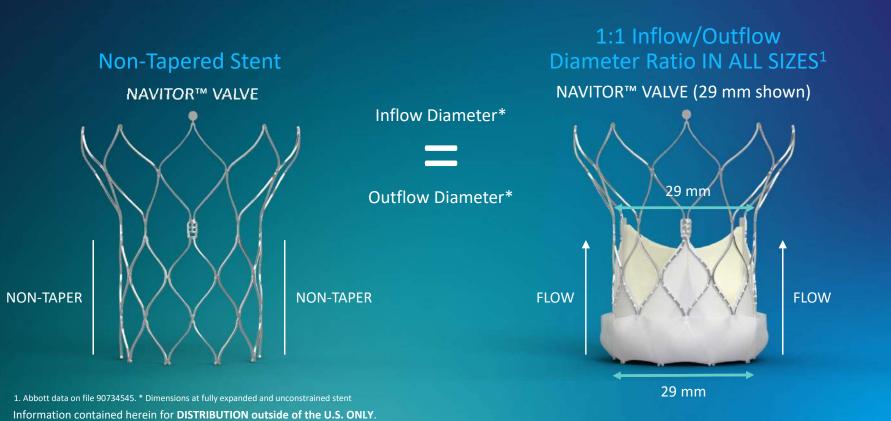
NOTE: Data not from head-to-head studies. Data differences depicted between these trials may not be directly comparable, statistically significant, or clinically meaningful due to differences in trial protocols, endpoints, and/or patient populations. Data provided for informational purposes only. †Prosthesis-patient mismatch (PPM) classified according to VARC 2 criteria and adjusted for BMI.

1. Abbott data on file for n=100 Navitor subjects. 2. Fontana GP. Safety outcomes from the Portico IDE FlexNav Delivery System study of 100 high and extreme risks patients. Presented at London Valves Meeting, November 18, 2019. 3. Tamburino C, et al. Comparison of self-expanding bioprostheses for transcatheter aortic valve replacement in patients with symptomatic severe aortic stenosis: SCOPE 2 Randomized Clinical Trial. Supplemental Table XIV. Circulation, 2020 Dec 22:142(25):2431-2442.

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^{*} Data represent a subset of high- or extreme-risk patients that received an Evolut+ R, Evolut+ PRO or Sapien+ 3 valve implant via a transfemoral or alternative access approach between May 2014 and October 2017. Patients were enrolled as part of a separate pivotal randomized study arm of the PORTICO IDE trial.

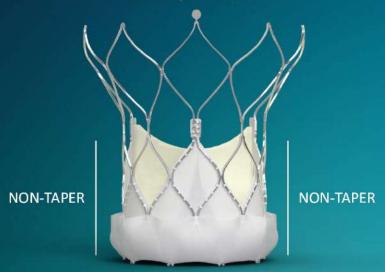
Exceptional Hemodynamics by Design



Comparative Designs

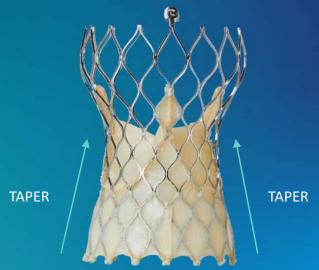
Non-Tapered Stent

NAVITOR™ VALVE



Tapered Stent

EVOLUT[‡] PRO VALVE



Comparative Designs

1:1 Inflow/Outflow Diameter Ratio IN ALL SIZES.¹

NAVITOR™ VALVE



| Navitor™ Valve | 23 mm | 25 mm | 27 mm | 29 mm |
|---------------------|--------|--------|--------|--------|
| Outflow Diameter | 23 mm | 25 mm | 27 mm | 29 mm |
| Inflow Diameter | 23 mm | 25 mm | 27 mm | 29 mm |
| Ratio | 1 to 1 | 1 to 1 | 1 to 1 | 1 to 1 |

< 1:1 Inflow/Outflow* Diameter Ratio IN ALL SIZES.²

EVOLUT[‡] PRO VALVE



| Evolut [‡] PRO Valve | 23 mm | 26 mm | 29 mm |
|----------------------------------|-----------|-----------|-----------|
| Outflow (Waist) Diameter | 20 mm | 22 mm | 23 mm |
| Inflow Diameter | 23 mm | 26 mm | 29 mm |
| Ratio | 1 to 0.87 | 1 to 0.85 | 1 to 0.79 |

1. Abbott data on file 90734545. 2. Arshi A, et al. Overcoming the transcatheter aortic valve replacement Achilles heel: coronary re-access. Ann Cardiothorac Surg. 2020 Nov;9(6):468-477.

Exceptional Hemodynamics

Designed for Immediate Functionality And Durability.



CONTINUOUS STABILITY. NO RAPID PACING.

The only self-expanding valve with intra-annular leaflets that immediately function and a non-tapered stent, providing hemodynamic stability throughout the procedure for a calm and controlled deployment.

DESIGNED FOR DURABILITY.

Exclusive Linx™ anticalcification (AC) technology resists calcification in four distinct ways to improve long-term valve performance.1-4

Information contained herein for DISTRIBUTION outside of the U.S. ONLY.

^{1.} Frater RWM, et al. Advances in anticalcific and antidegenerative treatment of heart valve bioprostheses. Silent Partners Inc. 1997;8:105-13.

^{2.} Kelly SJ, et al. Biocompatibility and calcification of bioprosthetic heart valves. Society for biomaterials. Sixth World Biomaterials Congress Transaction. 2000;13534.

^{3.} Vyavahare N, et al. Prevention of bioprosthetic heart valve calcification by ethanol preincubation: efficacy and mechanisms. Circulation. 1997;95(2):479-88.

^{4.} Vyavahare N, et al. Prevention of calcification of glutaraldehyde-crosslinked porcine aortic cusps by ethanol preincubation: mechanistic studies of protein structure and water-biomaterial relationships. J Biomed Mater Res. 1998:40(4):577-85...

Designed for Durability

| | ABBOTT LINX™ AC* ¹⁻⁴ | MEDTRONIC AOA ^{‡*5} | BOSTON SCIENTIFIC BIOFIX ^{‡*} | EDWARDS THERMAFIX ^{‡*6} |
|--|------------------------------------|---------------------------------|---|-------------------------------------|
| PRODUCTS | NAVITOR™ | EVOLUT [‡] PRO | ACURATE NEO2 [‡] | SAPIEN [‡] 3 |
| Reduces free aldehydes ^{1,2} | ✓ | √ | Not Publicly Available | ✓ |
| Extracts lipids ³ | ✓ | | Not Publicly Available | √ |
| Minimizes uptake of cholesterol ⁴ | ✓ | | Not Publicly Available | |
| Stabilizes leaflet collagen ⁴ | √ | | Not Publicly Available | |

^{*}There is no clinical data currently available that evaluates the long-term impact of anticalcification tissue treatment in humans.

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^{1.} Frater RWM, et al. Advances in anticalcific and antidegenerative treatment of heart valve bioprostheses. Silent Partners Inc. 1997;8:105-13.

^{2.} Kelly SJ, et al. Biocompatibility and calcification of bioprosthetic heart valves. Society for biomaterials. Sixth World Biomaterials Congress Transaction. 2000;13534.

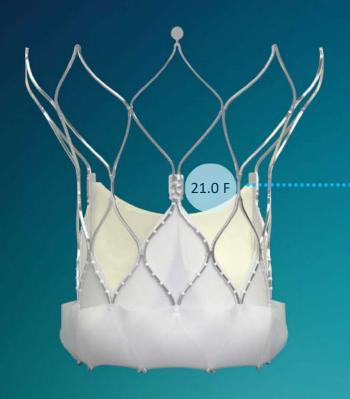
^{3.} Vyavahare N, et al. Prevention of bioprosthetic heart valve calcification by ethanol preincubation: efficacy and mechanisms. Circulation. 1997;95(2):479-88.

^{4.} Vyavahare N, et al. Prevention of calcification of glutaraldehyde-crosslinked porcine aortic cusps by ethanol preincubation: mechanistic studies of protein structure and water-biomaterial relationships. J Biomed Mater

^{5.} Gross J. Calcification of bioprosthetic heart valves and its assessment. J Thorac Cardiovasc Surg. 2003;125:6-8.

^{6.} Edwards website, http://www.webcitation.org/667CIPuMH. This WebCitation captured Edwards' site on 12MAR2012.

Uncompromised Coronary Access



UNCOMPROMISED CORONARY ACCESS.

Large-cell geometry and intra-annular valve design preserve coronary access for future intervention.

Uncompromised Coronary Access

| VALVE SIZE | NAVITOR™*1 | EVOLUT [‡] PRO*1 |
|------------|------------|---------------------------|
| 23 mm | 14.6 F | 12.1 F |
| 25 mm | 16.3 F | n/a |
| 26 mm | n/a | 11.8 F |
| 27 mm | 18.7 F | n/a |
| 29 mm | 21.0 F | 11.9F |

29 mm NAVITOR™ VALVE*1



9 CELLS IN THE ANNULUS **SECTION OF THE STENT**

29 mm EVOLUT[‡] PRO VALVE*1



135 CELLS TOTAL 15 CELLS IN THE ANNULUS **SECTION OF THE STENT**

^{*} Based on Abbott coronary access testing.

^{1.} Abbott data on file 90664679.

