I SEE INNOVATION IN MIVS THRU THE PROPLEGE DEVICE

**The only device that delivers peripheral retrograde cardioplegia for global myocardial protection**

- Steerable tip and torsional response for ease of insertion into the coronary sinus, even in challenging vasculature
- Reliable retrograde cardioplegia delivery
- Comfortable, easily controlled placement
- Gentle occlusion and reliable coronary sinus pressure monitoring

**ThruPort ProPlege Peripheral Retrograde Cardioplegia Device**

**Support to help you reach your professional goals in MIVS and achieve excellent patient outcomes:**

- Comprehensive team training
- Onsite clinical support
- Customizable educational platforms

ThruPort systems offer the opportunity to reach your professional goals in MIVS and beyond. Build advanced skills for less invasive and minimal incision procedures with the ProPlege device.

**MIVS REDEFINED**

Minimal incision valve surgery (MIVS) provides excellent outcomes and significant benefits for patients and surgical teams alike. Through peripheral cannulation, Edwards ThruPort systems achieve for lower products within the incision site. This offers excellent visualization and a virtually bloodless, uncirculated operative field, enabling safer repair or replacement through the smallest possible incisions.

ThruPort systems are available in:
- Irvine, USA
- Nyon, Switzerland
- Tokyo, Japan
- Singapore, Singapore
- São Paulo, Brazil

**MIVS enabled by ThruPort systems, provides significant patient benefits, including:**

- Shorter hospital stays and time in the ICU
- Faster return to work or routine activities
- Less discomfort and pain
- Reduced blood loss
- Less surgical trauma and risk of infection or complications
- Improved cosmesis

As with learning any new procedural approach, there is a learning curve, resulting in additional procedural time and/or expenses that can be eliminated or minimized with experience.

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Edwards Lifesciences devices placed on the European market meeting the essential requirements referred to in Article 3 of the Medical Device Directive 93/42/EEC bear the CE marking of conformity.

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**MIVS Redefined > THRUPORT SYSTEMS > TECHNOLOGY > TRAINING > SUPPORT**

**I SEE GLOBAL MYOCARDIAL PROTECTION THRU**

the only peripheral retrograde cardioplegia device

*In conjunction with antegrade cardioplegia

**References**


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MIVS REDEFINED

Minimal incision valve surgery (MIVS) provides excellent outcomes and significant benefits for patients and surgical teams alike. Through peripheral cannulation, Edwards ThruPort systems achieve lower intraoperative risk, helping to limit blood loss and reduce complications. Edwards ThruPort systems also allow for fewer products within the incision site, which offers excellent visualization and a virtually bloodless, unobstructed operative field, enabling valve repair or replacement through the smallest possible incision.1,2

MIVS enabled by ThruPort systems, provides significant patient benefits, including:

- Shorter hospital stays and time in the ICU1,3
- Faster return to work or routine activities
- Less discomfort and pain3
- Reduced blood loss1,3
- Less surgical trauma and risk of infection or complications1,3
- Improved cosmesis2

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I SEE GLOBAL MYOCARDIAL PROTECTION THRU the only peripheral retrograde cardioplegia device

In conjunction with antegrade cardioplegia
Enabling MIVS with global myocardial protection

Because visibility is imperative when it comes to MIVS, see how the ThruPort ProPlege peripheral retrograde cardioplegia device provides global myocardial protection, in conjunction with antegrade, through the least obstructive cannulation technique—and best outcomes for the patient.

The ProPlege device is the only technology that delivers retrograde cardioplegia through a peripheral approach, which means fewer products within the incision site enabling the smallest possible incision.*

The ProPlege device can be used in cardiopulmonary bypass procedures such as in minimal incision aortic valve replacement (MIAVR) and minimal incision mitral valve repair/replacement (MIMVR) for:

- Delivery of retrograde cardioplegia solution, outside of the incision
- Occlusion of the coronary sinus
- Monitoring of coronary sinus pressure

*When compared to median sternotomy

Enabling MIVS with global myocardial protection thru the only device for peripheral retrograde cardioplegia delivery. When combined with the ThruPort IntraClude intra-aortic occlusion device, the ProPlege device offers complete global myocardial protection for your MIVS procedures and more.

Maximum vision—thru minimal incision.
Steerable tip and torsional response for ease of insertion into the coronary sinus, even in challenging vasculature

- Highly engineered, 9 French shaft designed for excellent control and device management
- Specially designed, 59 cm shaft with depth markers and orientation line for ease of placement

Reliable retrograde cardioplegia delivery
- Specially designed balloon shape aids in centering the device tip to enable consistent retrograde cardioplegia delivery
- Provides dependable coronary sinus pressure monitoring
- Highly engineered balloon designed for consistent and reliable performance
- Gently occludes a range of coronary sinus diameters

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I SEE EXCELLENT OUTCOMES THRU MINIMAL INCISION VALVE SURGERY (MIVS)

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Diameter vs Volume

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