I SEE LESS
TRAUMATIC AORTIC OCCLUSION
the only intra-aortic occlusion device

ThruPort IntraClude
Intra-Aortic Occlusion Device

*When compared to median sternotomy

MIVS Redefined > THRU PORT SYSTEMS > TECHNOLOGY > TRAINING > SUPPORT
Minimal incision valve surgery (MIVS) provides excellent outcomes\(^1-4\) and significant benefits for patients and surgeons alike. Through peripheral cannulation, Edwards ThruPort systems’ allows for fewer products within the incision site. This offers surgeons excellent visualization and a virtually bloodless, unobstructed operative field\(^2\), enabling mitral valve repair or replacement through the smallest possible incision.\(^1-4\)

**MIVS enabled by ThruPort systems, provides significant patient benefits, including:**
- Shorter hospital stays and time in the ICU\(^1-5\)
- Faster return to work or routine activities\(^2\)
- Less discomfort and pain\(^2\)
- Reduced blood loss\(^1-5\)
- Less surgical trauma and risk of infection or complications\(^1,2,5\)
- Improved cosmesis\(^2\)

**Only Edwards provides you with the support to help you reach your professional goals in MIMVR and achieve excellent patient outcomes:**
- Comprehensive team training
- Onsite clinical support
- Customizable educational platforms

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.\(^2\)

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**ThruPort systems offer the opportunity to reach your professional goals in MIVS and beyond.** Build advanced skills for minimal incision procedures with the IntraClude device and offer your patients the benefits of minimal incision mitral valve surgery.
ENABLING MIVS THRU ONE HIGHLY SPECIALIZED SOLUTION:

ThruPort IntraClude Intra-Aortic Occlusion Device

I SEE EXCELLENT OUTCOMES THRU the IntraClude device

The IntraClude device was specifically designed to provide just what you’re looking for in minimally invasive mitral valve surgery.

The IntraClude device is the only solution specially designed for:

- Endovascular intra-aortic occlusion through peripheral access enabling the smallest possible incision*
- Antegrade cardioplegia delivery for optimal protection of myocardial tissue
- Aortic root venting for an unobstructed, virtually bloodless surgical field
- Aortic root pressure monitoring

Provides global myocardial protection when used with the ProPlege coronary sinus catheter.

Maximum vision – thru minimal incision.

*When compared to median sternotomy
The IntraClude device can be used in cardiopulmonary bypass procedures such as minimal incision mitral valve repair or replacement procedures, re-operations, tricuspid valve procedures, intracardiac myxoma resection, patent foramen ovale repairs, atrial septal defect repairs, and ablative maze procedures for atrial fibrillation.

**Arterial Perfusion Flow vs. Pressure**

- Mean value derived from in vitro testing performed with water at 23°C. The actual pressure gradients encountered in a clinical situation may vary from those shown, depending on perfusion techniques.

Small, flexible, 10.5 Fr device with ~49 cm strain relief, provides excellent control, durability, extended and effective perfusion flow rates.

- Enables optimal perfusion flow rates with low pressures
- Effective arterial return flow with the EndoReturn arterial cannula
- An additional option includes the Edwards arterial cannula and introducer sheath
- Strain relief is 10.5 Fr and ~49 cm in length.

**Inflated Balloon**

- Small, flexible, 10.5 Fr device with ~49 cm strain relief, provides excellent control, durability, extended and effective perfusion flow rates.

**Highly engineered balloon and tip designed for optimal performance**

- Uniquely designed balloon helps to maintain consistent occlusion
  - Gently expands to occlude a range of aorta sizes between 2.0 cm to 4.0 cm (20 mm to 40 mm)
- Balloon is designed to center the tip toward the valve for effective cardioplegia delivery and reliable aortic root pressure monitoring
Streamlined hub with intuitive design
- Glidewire front-loaded for ease of insertion
- Curve of hub matches shaft curve for quick directional identification
- ~49 cm strain relief minimizes kinking and enables intuitive product preparation

Reinforced ClampLock to prevent balloon from migrating

Curve and device shaft work in tandem for ease of placement
- Glides along the guidewire for effective delivery
- Excellent column strength and device flexibility for reliable control and response along the guidewire
- Offers ease of placement over the aortic arch and works to hold the balloon in place
I SEE MIVS THRU the only solution that provides four functions in one:

ThruPort IntraClude Intra-Aortic Occlusion Device

MIVS for mitral valve repair or replacement through the smallest possible incision*

The only solution designed for less traumatic aortic occlusion, cardioplegia delivery, aortic root monitoring, and root venting:

- Small, 10.5 Fr device shaft with a ~49 cm strain relief to provide excellent column strength
- Streamlined hub with intuitive design
- Highly engineered balloon and tip designed for optimal performance
- Curve and device shaft work in tandem for ease of placement

*When compared to median sternotomy

References

For professional use. CAUTION: Federal (United States) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, precautions and adverse events.

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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