



FOR AORTA

FROZENIX

manufactured in Japan







The preferred choice for Frozen Elephant Trunk reconstruction

Open Stented Grafting originated in Japan is recognized as the Frozen Elephant Trunk Technique across the world. The case number in Japan is increasing year by year since FROZENIX was launched in July, 2014.

The device also advances along with the accumulated experience in clinical practice.

FROZENIX

As a supplementary device in Total Arch Replacement, we hope FROZENIX will continue to provide a better option for treatment of Aortic Aneurysm.





Advanced Delivery System



FROZENIX can be deployed in 3 easy steps.



Unpack the whole package from the sterilization pouch and uncase FROZENIX to right above.



Adjust the curve of the tip to facilitate insertion of the device.



Pull the sleeve whilst holding on to the grip.



NEW Insertion of guide wire

If required, the guide wire is

* recommended diameter of guide wire: 0.035 inch

Unique stent design



Hand-knitted unique stent design that yields flexibility



Supple yet strong enough to conform to the aortic arch





FROZENIX

Grip

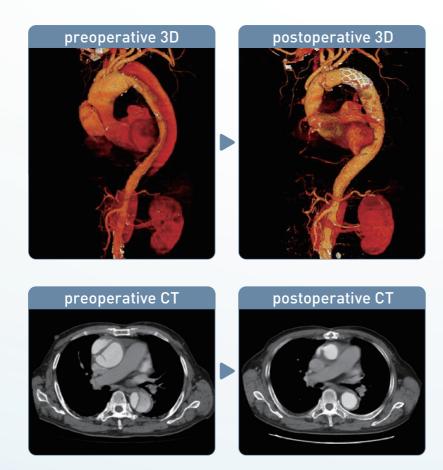
New design with better handling and slip resistance



Acute Type A Dissection

It is reported that FROZENIX can produce an excellent remodeling of the thoracic aorta.¹⁾

Here is a case example of total arch replacement with FROZENIX for treatment of the acute type A dissection.
The false lumen of the descending thoracic aorta became thrombosed after the operation and an excellent remodeling of the thoracic aorta was confirmed by CT after 6 months.



Aneurysm

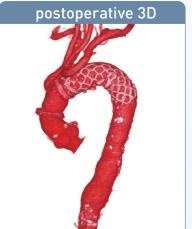
Anastomosis at the distal end of the distal arch aneurysm can be simplified and can treat at one time by median sternotomy.

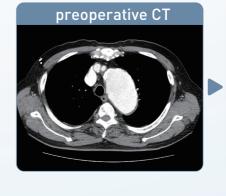
Here is a case example of total arch replacement with FROZENIX for treatment of the distal arch aneurysm.

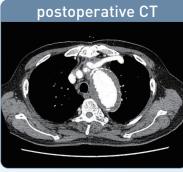
It is reported that the risk of respiratory complications such as hoarseness and dysphagia can be reduced as damage to a recurrent laryngeal nerve is limited by minimum exfoliation of the aortic arch.

Also, it helps graft anastomosing at the proximal end under good vision and makes the bleeding control easy.









Stump Formation

It is necessary to make stump formation at the proximal end after the deployment of stent in order to control the bleeding as FROZENIX uses a non-coated graft (porosity: 150cc)



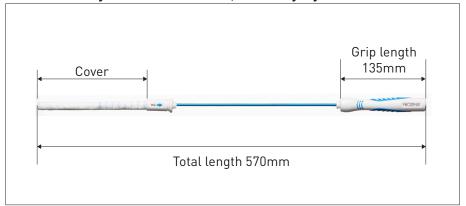






¹⁾ Naomichi Uchida, Department of Cardiovascular Surgery, Akane-foundation Tsuchiya General Hospital, et al. A new device as an open stent graft for extended aortic repair: a multicentre early experience in Japan. Eur J Cardiothorac Surg (2016) 49 (4): 1270-127

Stent Graft System (Stent Graft, Delivery System)



Stent Graft



- · Graft Material : Polyester
- · Stent Material : Nickel-titanium alloy

Stent Material Nickel-titanium alloy

Graft Material Uncoated Polyester

Durability

Rod

MR Safety

MR Conditional
FROZENIX can be scanned safely under static magnetic field of 3.0 Tesla or less.

After 380 million cycles (equivalent to 10 years) of pulsatile test, no breakage, damage, or deformation was observed (according to JIS T 0401:2013).

The graft is loaded between a bendable rod and a cover; therefore, the curve of the tip is adjustable.

Total length		Stent length Outer diameter	60mm	90mm	120mm	150mm
		21 mm	FRZX21060	FRZX21090	FRZX21120	_
		23mm	FRZX23060	FRZX23090	FRZX23120	FRZX23150
		25mm	FRZX25060	FRZX25090	FRZX25120	FRZX25150
200mm		27 mm	FRZX27060	FRZX27090	FRZX27120	FRZX27150
		29 mm	FRZX29060	FRZX29090	FRZX29120	FRZX29150
		31 mm	FRZX31060	FRZX31090	FRZX31120	FRZX31150
		33mm	FRZX33060	FRZX33090	FRZX33120	FRZX33150
		35 mm	FRZX35060	FRZX35090	FRZX35120	FRZX35150
		37 mm	FRZX37060	FRZX37090	FRZX37120	FRZX37150
		39 mm	FRZX39060	FRZX39090	FRZX39120	FRZX39150

Note: Catalogue numbers are subject to countries.