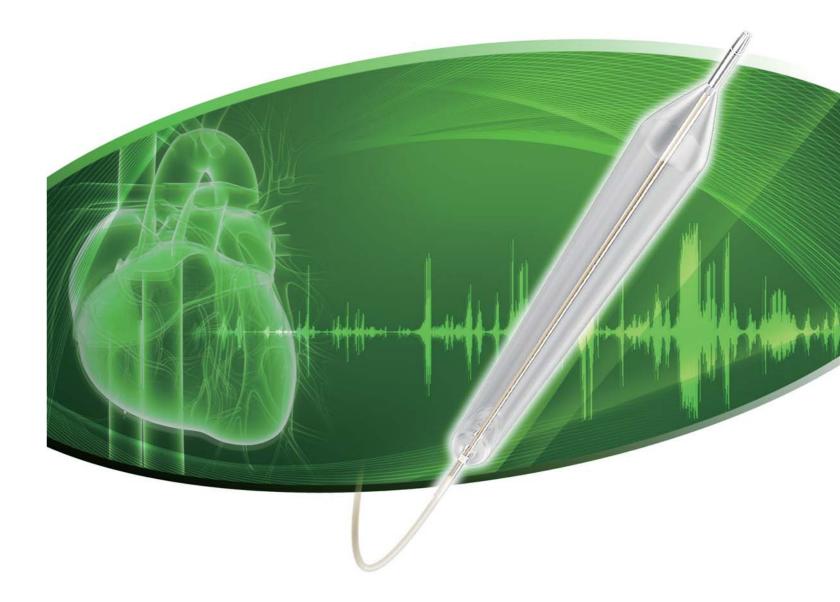




XEMEX IABP Balloon Plus



Ordering information

Code No.	Balloon Volume	Catheter O.D.	Balloon Length	Balloon Diameter	Recommended * Patient Height
BPGL2570 (E)	25mL	7.0F (2.33mm)	180mm	14.1mm	≤150cm ≤4'11"
BPGL3070 (E)	30mL	7.0F (2.33mm)	210mm	14.1mm	150-165cm 4'11"-5'5"
BPGL3570 (E)	35mL	7.0F (2.33mm)	243mm	14.1mm	≥165cm ≥5'5"
BPGL3080 (E)	30mL	8.0F (2.66mm)	210mm	14.1mm	≤155cm ≤5'1"
BPGL3580 (E)	35mL	8.0F (2.66mm)	214mm	15.1mm	155-165cm 5'1"-5'5"
BPGL4080 (E)	40mL	8.0F (2.66mm)	243mm	15.1mm	≥165cm ≥5'5"
BPGL3580-SH (E)*	35mL	8.0F (2.66mm)	162mm	17.1mm	≥145cm ≥4'9"

*Short Balloon Type **Refer to the figure only as a guide. Please select product by confirming balloon length and diameter.

CE₀₁₉₇

Manufactured by:

ZEON MEDICAL INC. 2-4-1 Shiba-Koen, Minato-ku, Tokyo 105-0011 Japan TEL: +81-3-3578-7728 FAX: +81-3-3578-7749

Agent:





Development of New Concept Balloon XEMEX IABP Balloon Plus "8F Short Balloon"

Three keys for patient-oriented catheter

XEMEX product development in close cooperation with medical sites

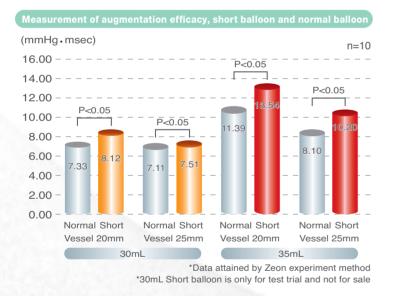
- Prevent renal arterial occlusion
- High augmentation performance
- Reduce balloon leak risk

TABP SF

IABP Augmentation Efficacy

-Balloon diameter is increased by 2mm for better augmentation

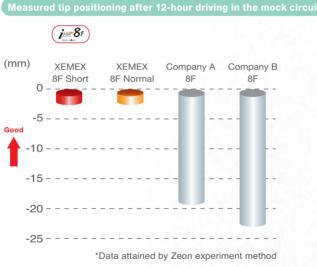
The experiment proved that 35mL XEMEX Short IABP balloon catheter was remarkable in augmentation effect compared to Normal IABP



Catheter Migration

-Nylon catheter shaft performs high durability

The experiment proved that XEMEX Short IABP is superior to those of competitors as well as XEMEX conventional balloon.

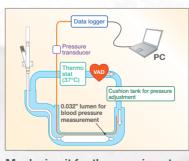


*Comparison of Length

2

·Balloon length is reduced by 25% of conventional balloon catheter ·Better pushability, better trackability and less risk of renal arterial occlusion





Mock circuit for the experiment Pseudo Blood : 50% alveerin solution. med to 37°C (viscosity 4 cps) : 100/50 mmHg, heart rate 100bpr Xemex IABP Console 908 Assist ratio : 1:4

Measurement of Aorta and analysis of IABP balloon sizes

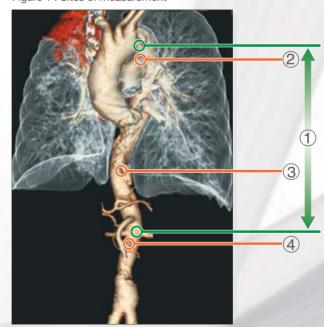
Each size below was measured via images of CT (Figure 1) No. of patients: 100 patients on whom contrast-enhanced CT was performed Reference and citation: "Use of 8Fr Short Balloons at Our Facility'

by Kazuya Hirata, Department of ME, Hokkaido Social Insurance Hospital, Japan

- 1. Distance between left subclavian artery and aorta below renal artery
- 2. Minor diameter of descending aorta
- 3. Minor diameter of subphrenic aorta
- 4. Minor diameter of aorta below renal artery

The result shows that the aortic vessel tends to In the analysis of balloon diameter, the diameter become smaller below the renal artery and of the aortic artery was larger than the balloon appears calcification and intimal hypertrophy in diameter of the Short IABP at the site of the positioned IAB catheter. However, since the approximately 30% of the patients. Considering IAB balloon length and balloon diameter, when descending aorta begins to follow a tortuous 8Fr 35mL Normal IABP catheter was used in course nearby the subphrenic region and there is a risk of the balloon contacting the vessel wall at these patients, the catheter was positioned nearby the area below the renal artery in some the tortuous points, the augmentation level should cases, which raises the risk of balloon rupture be set properly by watching the balloon pressure and other complications. To ensure safety in this patterns in order not to expose the vascular wall case, use of 8Fr 35mL Short IABP catheter to excessive stress. seemed to be superior. (Figure 2)

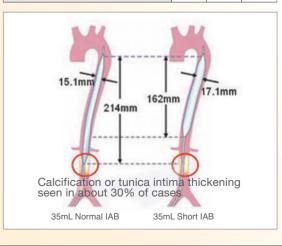
Figure 1 : Sites of measurement





		male	female	total
	Number of patients:	60	40	100
	Mean age (years)	66.5	72.6	68.5
	Mean height (cm)	163.2	148.5	157.5
D	Distance from left subclavicular artery to aorta below renal artery (mm)	231.6	211.0	224.9
2)	Minor diameter of descending aorta (mm)	25.3	23.2	24.6
3	Minor diameter of subphrenic aorta (mm)	22.6	21.2	22.2
4)	Minor diameter of aorta below renal artery (mm)	17.1	14.0	15.9

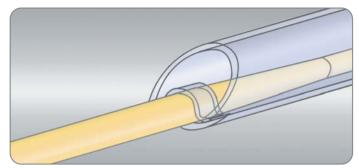
Figure 2 : Results of measurement



Data collected and analyzed by Hokkaido Social Insurance Hospital, Japan

Technology –

1. Inner Stopper



- Strengthened adhesion of inner and outer tubes for stable pumping (patent pending)
- Integrated double lumen structure for superior response performance and durability of the catheter

2. High Durability of Catheter Shaft

- Superior stability of Nylon catheter shaft
- Prevents catheter from blood heat softening and damage of vessel walls
- Stiffer shaft provides super trackability to catherter

3. Integrated Double Lumen Structure

- Large helium gas lumen provides better response performance with small size catheters
- Kink-resistant performance improved by reliable inner and outer shaft anchoring

4. Three-Level-Diameter

- Tapered structure toward proximal of outer shaft provides catheter shaft durability
- Succeeded in higher response performance by enlargement of helium gas lumen of outer shaft outside of the body

5. Sheath Introducer

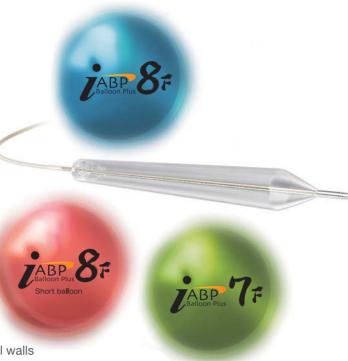
Less gap between sheath and dilator



- Zeon's processing technology realized: ·Smooth transition of diameter gap ·Less insertion resistance Increased intensity
- Prevention of distortion or deformation

6. Soft tip of catheter prevents unintentional vessel damage

Sophisticated taper shape and soft material for catheter tip

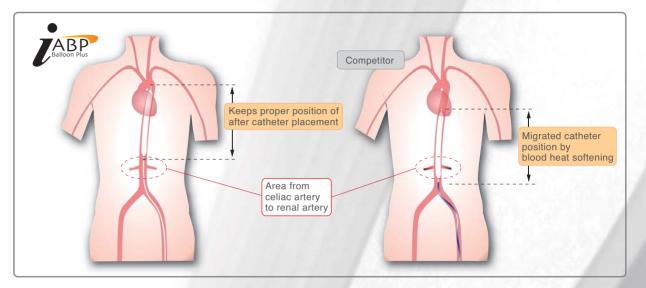


(Newton) 8 XEMEX 7F XEMEX 8F Company A 7F Company B 7.5F Company B 8F Company C 8F

- Excellence trackability of dilator tip to GW
- Downsized dilator tip has increased:
- •Tip flexibility and trackability to the guide wire ·Prevention of damage to the vessel wall

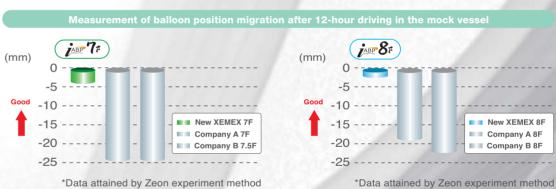
Advantage

1. High Level Balloon and Catheter Positioning Stability



High Balloon position stability:

- 1. Stiff nylon catheter shaft
- 2. Three-level-diameter shaft structure

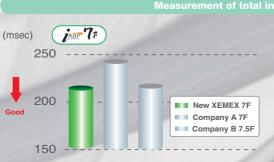


*Data attained by Zeon experiment method

2. Pumping Response Performance

Pumping response performance is ensured by:

- 1. Double lumen structure with large helium gas lumen
- 2. Three-level-diameter catheter shaft
- 3. Inner stopper anchoring

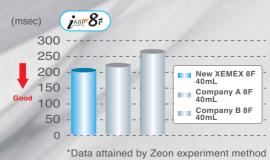


*Data attained by Zeon experiment method









XEMEX IABP Balloon Plus Specification (insertion with sheath / sheath less)

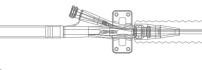
ABP 77

		Catheter Tray	
Code No.	BPGL2570 (E)	BPGL3070 (E)	BPGL3570 (E)
Balloon volume	25mL	30mL	35mL
Catheter outer diameter	2.33mm (7.0F)		
Catheter type	Double Lumen Type		
Inner diameter	0.71mm (0.028inch)		
Guide wire	0.50mm (0.020inch)		
Catheter active length	651mm	681mm	714mm
Balloon length	180mm	210mm	243mm
Balloon diameter	14.1mm		
Catheter material	Outer tube: Nylon (antit Inner tube: Special trea	hrombogenic polyurethane coating ted resin)
Balloon material	High-strength antithrom	bogenic polyurethane coating	
Accessories	50mL syringe, One-way	valve for decompression	
		Introducer Tray	
Sheath type	Standard type with hem	ostasis valve	
Sheath active length	17.5cm		
Sheath inner diameter	2.40mm		
Guide wire		on catheter insertion 0.50mm (0.020 th introducer 0.88mm (0.035 inch) λ	2
Accessories	18G Needle, Adapter for Blood pressure monitorir	other manufacturer's driving console ng line, 3-way stopcock	es, Dilator (6F X 16.5cm),



6

		Catheter Tray	
Code No.	BPGL3080 (E)	BPGL3580 (E)	BPGL4080 (E)
Balloon volume	30mL	35mL	40mL
Catheter outer diameter	2.66mm (8.0F)		
Catheter type	Double Lumen Type		
Inner diameter	0.88mm (0.035inch)		
Guide wire	0.79mm (0.031inch)		
Catheter active length	695mm	700mm	725mm
Balloon length	210mm	214mm	243mm
Balloon diameter	14.1mm	15.1mm	15.1mm
Catheter material	Outer tube: Nylon (antithrombogenic polyurethane coating) Inner tube: Special treated resin		
Balloon material	High-strength antithrom	pogenic polyurethane coating	
Accessories	50mL syringe, One-way	valve for decompression	
		Introducer Tray	
Sheath type	Standard type with hem	ostasis valve	
Sheath active length	17.5cm		
Sheath inner diameter	2.73mm		
Guide wire	1 0	on catheter insertion 0.79mm (0.03 th introducer 0.88mm (0.035 inch) >	,
Accessories	18G Needle, Adapter for ot Blood pressure monitoring	her manufacturer's driving consoles, Di line, 3-way stopcock	lator (7F X 16.5cm),





	Catheter Tray
Code No.	BPGL3580-SH (E)
Balloon volume	35mL
Catheter outer diameter	2.66mm (8.0F)
Catheter type	Double Lumen Type
Inner diameter	0.88mm (0.035 inch)
Guide wire	0.79mm (0.031 inch)
Catheter active length	682mm
Balloon length	162mm
Balloon diameter	17.1mm
Catheter material	Outer tube: Nylon(antithrombogenic po
	Inner tube: Special treated resin
Balloon material	High-strength antithrombogenic polyur
Accessories	50mL syringe, One-way valve for deco
	Introducer Tra
Sheath type	Standard type with hemostasis valve
Sheath active length	17.5cm
Sheath inner diameter	2.73mm
Guide wire	J tip guide wire for balloon catheter ins
Guide wire	J tip guide wire for sheath introducer 0.
Accessories	18G Needle, Adapter for other manufacture
Accessones	Blood pressure monitoring line, 3-way stop

Catheter Tray

Introducer Tray



Driving Tube

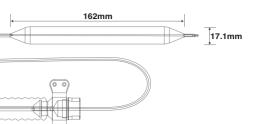
For Datascope Console

For ARROW Console

Caution

Please make sure to use catheter and introducer set packed in the same box.
Please make sure to read the attached IFU when using the product.





olyurethane coating)
rothono cooting

rethane coating compression

sertion 0.79mm (0.031inch) X 150cm 0.88mm (0.035inch) X 80cm

rer's driving consoles, Dilator (7F X 16.5cm), pcock

