

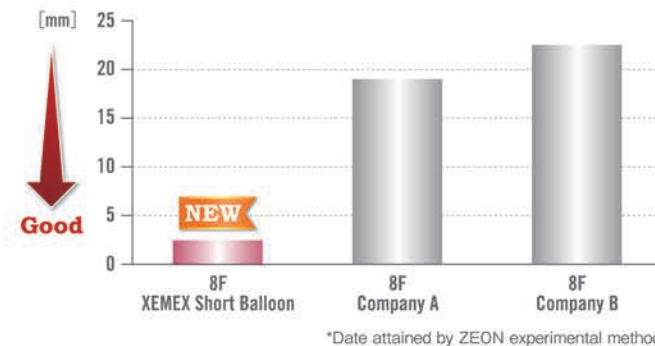
1.High Durability Supportive Nylon Catheter Shaft: Better Placement

- Superior stability of nylon made catheter shaft brings less migration/ less balloon wandering
- Less affected by blood heat and descending blood pressure
- Better flexibility and trackability of catheter

Comparison of catheter migration

Measured tip positioning after 12hour driving in the mock circuit.

The experiment proved that **XEMEX Short Balloon is superior to competitors.**



2.Less Transition Gap Between Sheath and Dilator



3.Larger Catheter Inner Lumen

- 0.035 inch large inner lumen
- 0.031 inch large outer diameter guide wire attached for catheter insertion

Product Specification

Balloon Tray		
Product Code	BPGL3580-SH(E)	BPGL4080-SH(E)
Balloon Volume	35mL	40mL
Recommended patient height	≥145cm / ≥4'9"	≥160cm / ≥5'4"
Catheter Outer Diameter	8F (2.66mm)	8F (2.66mm)
Balloon Outer Diameter	17.1mm	17.1mm
Balloon Length	162mm	182mm
Catheter Active Length	682mm	725mm
Catheter Inner Lumen	0.035inch (0.88mm)	
Applicable Maximum Guide Wire	0.032inch (0.81mm)	
Balloon Material	Polyurethane	
Outer Catheter Material	Outer layer : Polyurethane , Inner layer : Nylon	
Inner Catheter Material	PEEK	
Introducer Tray		
Sheath Introducer Active Length	17.5cm	
Sheath Introducer Inner Diameter	2.73mm	
Sheath Guide Wire	Stainless steel 0.035inch (0.88mm)×800mm length	
Catheter Guide Wire	Stainless steel 0.031inch (0.79mm) ×1500mm length	
Monitoring Lines	800mm & 1500mm	

Manufactured by:

ZEON MEDICAL INC.

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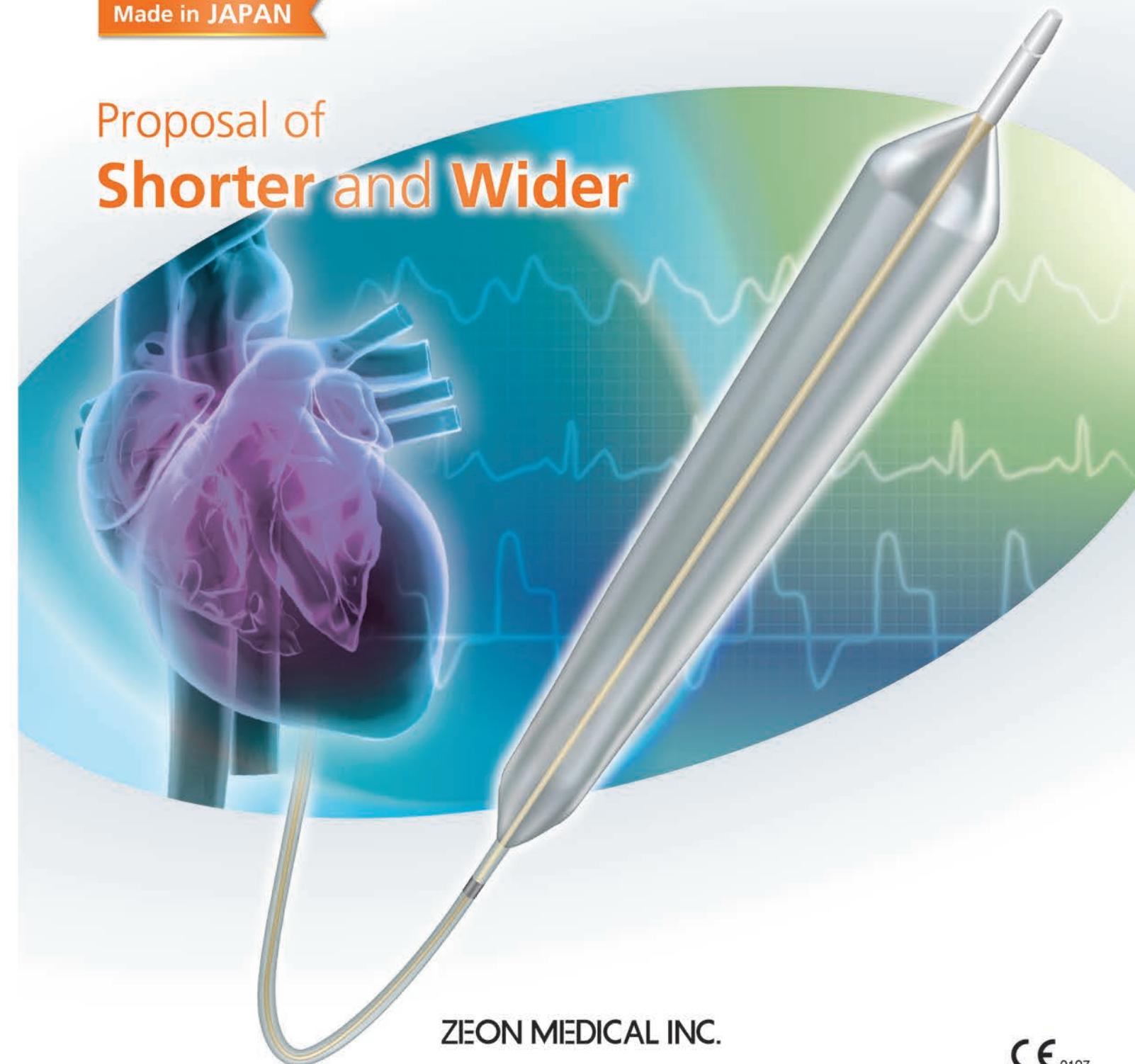
Agent

XEMEX IABP Balloon Plus Short Balloon

Intra Aortic Balloon Pumping (IABP) Balloon Catheter

Made in JAPAN

Proposal of
Shorter and Wider



ZEON MEDICAL INC.

Proposal of Shorter and Wider

Patient-oriented
XEMEX Short Balloon development

POINT
1

Avoid Complications: Secure visceral artery perfusion

- No compromise of renal, celiac and mesenteric arterial perfusion
- Less balloon leak possibility
- Increase visceral flow and prevent visceral ischaemia

Wider

Shorter

POINT
2

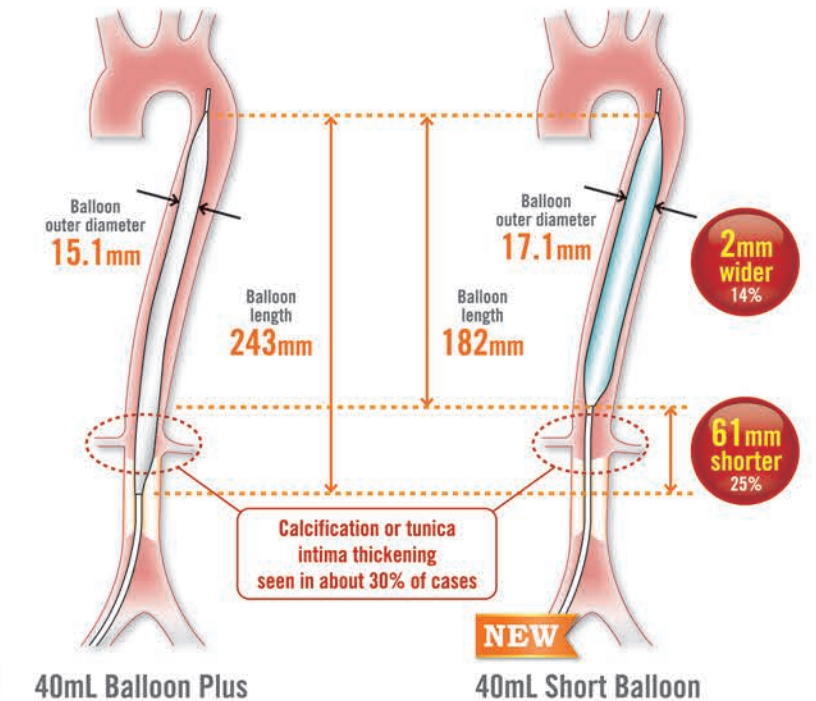
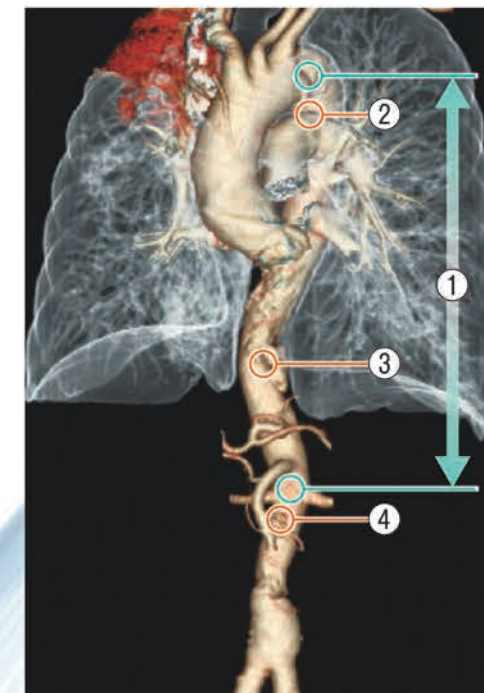
Efficacy: High counterpulsation performance

- Higher augmentation from increased balloon outer diameter
- Increase more coronary blood flow

POINT 1

Avoid Complications: Secure visceral artery perfusion

Measurement of Aorta diameter and distance



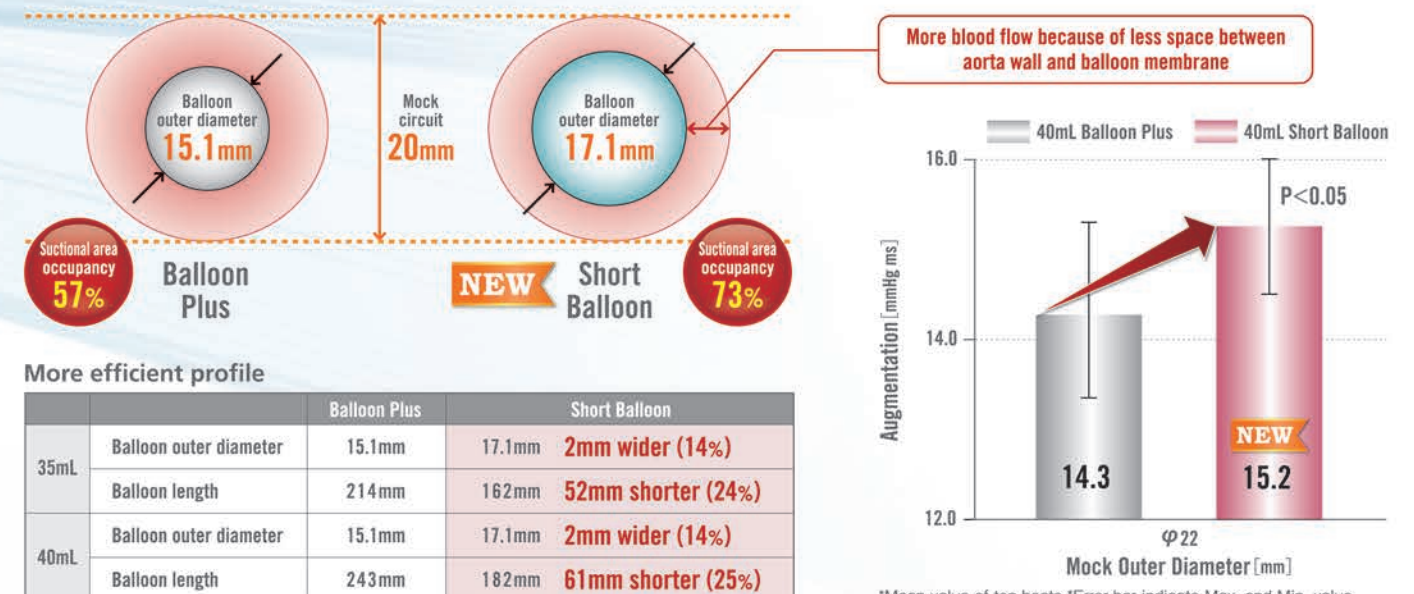
	No. of patients	Mean age (years)	Mean height (cm)	① Distance from left subclavicular artery to aorta below renal artery (mm)	② Minor diameter of descending aorta (mm)	③ Minor diameter of subphrenic aorta (mm)	④ Minor diameter of aorta below renal artery (mm)
Male	60	66.5	163.2	231.6	25.3	22.6	17.1
Female	40	72.6	148.5	211.0	23.2	21.2	14.0
Total	100	68.5	157.5	224.9	24.6	22.2	15.9

*100 patient data by CT contrast media injection *Data from Hokkaido Social Insurance Hospital, Japan

POINT 2

Efficacy: High counterpulsation performance

40mL Short Balloon and 40mL Balloon Plus comparison



More efficient profile

		Balloon Plus	Short Balloon
35mL	Balloon outer diameter	15.1mm	17.1mm 2mm wider (14%)
	Balloon length	214mm	162mm 52mm shorter (24%)
40mL	Balloon outer diameter	15.1mm	17.1mm 2mm wider (14%)
	Balloon length	243mm	182mm 61mm shorter (25%)

*Mean value of ten beats *Error bar indicate Max. and Min. value