

Thermodilution Catheter

Pulmonary Artery Monitoring Catheter and Biotray

Product	Material	Catheter Size	Lumen	Length	Balloon Volume(cc)	Thermistor Resistance (ohms)	Recommended Introducer Size	Radiopacity	
TD1504N	PVC	5F	4	90 cm	0.75	14K	6F		
TD2504N	PU	5F	4	90 cm	0.75	14K	6F		
TD1604N	PVC	6F	4	110 cm	1.00	14K	7F		
TD2604N	PU	6F	4	110 cm	1.00	14K	7F		
TD1704N	PVC	7F	4	110 cm	1.50	14K	8F		
TD2704N	PU	7F	4	110 cm	1.50	14K	8F		
TD1755N	PVC	7.5F	5	110 cm	1.50	14K	8.5F	Sufficiently	
TD2755N	PU	7.5F	5	110 cm	1.50	14K	8.5F	opaque to	
PA MONITORING CATHETER appear visible									
TD1502N	PVC	5 Fr	2	90 cm	0.75	N/A	6F	under conventional	
TD2502N	PU	5 Fr	2	90 cm	0.75	N/A	6F	flouroscope	
TD1602N	PVC	6 Fr	2	110 cm	1.00	N/A	7F	illumination	
TD2602N	PU	6 Fr	2	110 cm	1.00	N/A	7F	while in vivo	
TD1702N	PVC	7 Fr	2	110 cm	1.50	N/A	8F		
TD2702N	PU	7 Fr	2	110 cm	1.50	N/A	8F		
TD1603N	PVC	6 Fr	3	110 cm	1.00	N/A	7F		
TD2603N	PU	6 Fr	3	110 cm	1.00	N/A	7F		
TD1703N	PVC	7 Fr	3	110 cm	1.50	N/A	8F		
TD2703N	PU	7 Fr	3	110 cm	1.50	N/A	8F		
SPECIAL FEATURES									

Optional Features	Suffix	Description			
SAFETYWEDGE™	D	Catheter with SAFETYWEDGE™			
Contamination Sleeve	Х	Catheter without contamination sleeve			
Non-coated tubing	N	Catheter with no coating on tubing			
Stiff Body Tubing	F	Catheter with stiffer tubing			

SAFETYWEDGETM covered by U.S. Patent No. 5,007,919 1. Thomas Santora, MD; William Ganz, MD; Julian Gold, MD; Mark Wittman, MD; Beverley Leyerle, RN; H.J.C. Swan, MD, PhD; M. Michael Shabot, MD, "New method for monitoring pulmonary artery catheter location, "Critical Care Medicine". Vol. 19, No. 3, p. 422, 1991. 2. Jean-Francois Hardy, MD; Martin Morissette, MD; Jean Taillefer, MD; Rene Vauclair, MD; "Pathophysiology if Repture of the Pulmonary Artery by Pulmonary Artery Balloon-Tipped Catheters, "Anesthesia & Analgesia". Vol. 62, p. 925, 1983.

BIOPTIMAL INTERNATIONAL PTE. LTD.

36 Jalan Tukang Singapore 619266 Tel: +65 6213 5777 Fax: +65 6213 5737 Email: sales@bioptimalg.com



www.bioptimalg.com

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Eliminating the risk of Pulmonary Artery Rupture.

About SAFETYWEDGE[™] Thermodilution Catheter

An unprecedented level of safety for balloon inflation.

Catheter tips often migrate to small arterial branches that are unable to safely accommodate inflated balloons.

SAFETYWEDGE[™] thermodilution catheters virtually eliminate the risk of pulmonary artery rupture due to balloon overpressurization - the most serious complication associated with PA catheter monitoring.

SAFETYWEDGE[™] catheters reduce the risk of this potentially dangerous situation by facilitating inflation of the SAFETYWEDGE[™] device when either (1) the distal balloon encounters abnormal resistance to inflation, or (2) the pressure inside the distal balloon exceeds the normal inflation pressure.

SAFETYWEDGE[™] component acts as a pressure relief valve to prevent overpressurization of the distal balloon.

This not only averts vessel rupture but balloon rupture as well, and alerts the clinician to reposition the catheter.

Features and Benefits

SAFETYWEDGE[™]

Exclusive Safety balloon acts as pressure relief valve to prevent overpressurization of the balloon.

Contamination Shield

Provides a protective barrier against contamination of the catheter during catheter insertion and manipulation.

• Medication Lumen

Permits blood sampling, fluid and drug administration and central venous pressure monitoting (7.5 French catheter only).

• Thermistor Connector

Compatible with commonly used cardiac output computers, also used to monitor pulmonary artery blood temperature.

• PA Distal Lumen

Allows mixed venous blood sampling, and measurements of pulmonary artery and pulmonary capillary wedge pressure.

Distal Balloon

Provides excellent symmetry and tip coverage for the safe flotation of the catheter and for pulmonary capillary wedge pressure measurements.

CVP Proximal or Injectate Lumen

Carries cardiac output injectate solution to right atrium. Accommodates blood sampling, fluid and drug administration and - when attached to a pressure transducer -monitor of right atrium pressure.



Correct catheter position, with SAFETYWEDGE™ device in READY mode.



Catheter tip migration into small PA branch, SAFETYWEDGE™ device activated upon attempt to inflate distal balloon.

SAFETYWEDGE™ Thermodilution Catheter with the Biotray

Reducing the Serious Risk of Pulmonary Artery Rupture.

The BioTray contains all the necessary supplies used with the SAFETYWEDGE™ thermodilution catheter. Value added benefits:

- Elimination of the sheath-catheter size compatible issue Ease of use Convenience
- Easier inventory control Elimination of nursing cover as the tray can be opened in a sterile area
- All components matched by BIOPTIMAL for optimum compatibility

Contents of the Biotray

Features high quality products at lower costs, saves time and reduces supply inventories.

- One Thermodilution Catheter /
- PA Monitoring Catheter
- Contamination Shield
- SAFETYWEDGE[™] Balloon Device
- Venous Introducer with Dilator Guidewire (0.035")
- Needle 18G x 2 1/2"
- Needle 18G x 2 1/2" OTN Catheter
- Paper Towel 17 x 22"

Advantage of PU catheter

- Polyurethane performs better against thrombosis, eliminating the need for Heparin coating.
- Polyurethane is tough, biocompatible, and hemocompatible. Polyurethane also outperforms many other materials in flexibility, tear resistance and abrasion resistance.

Polyurethane is stiff when insert the catheter however after it goes into vein and contacts blood it will become soft which can reduce the risk of damage and injury to the vein wall.

- The use of Polyurethane in Bioptimal's thermodilution catheters eliminates the problems associated with other materials such as PVC, where the dangers of leachable plasticizers has become a concern.
- Polyurethane is radiopague material which can be detected clearly to ensure correct placement of the catheter.

Needle 22G

Needle 25G

• Gauze Swab

- Syringe
- Suture, Silk

• Syringe Luer Slip 5cc Scalpel #11 Short

• Drape Minor Proc. Fen 22 x 22"



Total Package, Total Solution

Enjoy the benefits of the **SAFETYWEDGE™** thermodilution catheter in a convenient, fully accessorised all-in one tray.

