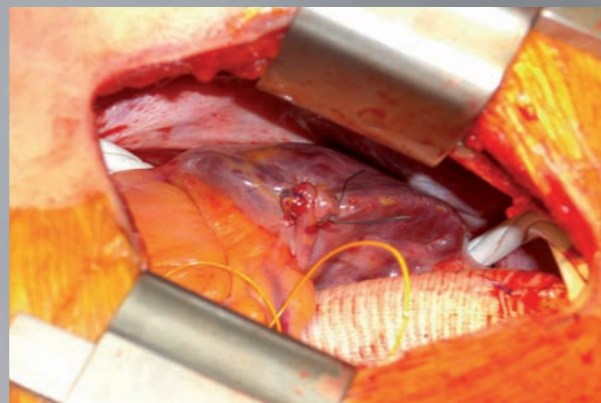
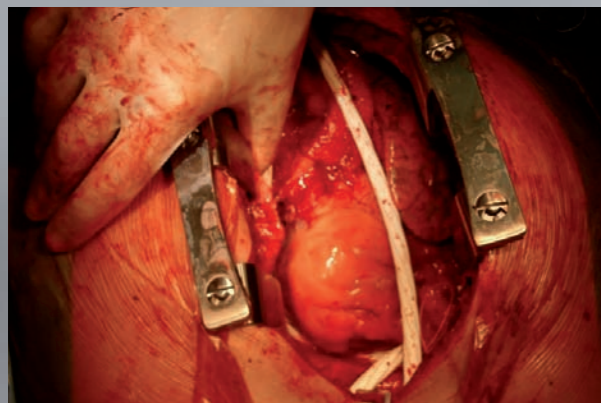


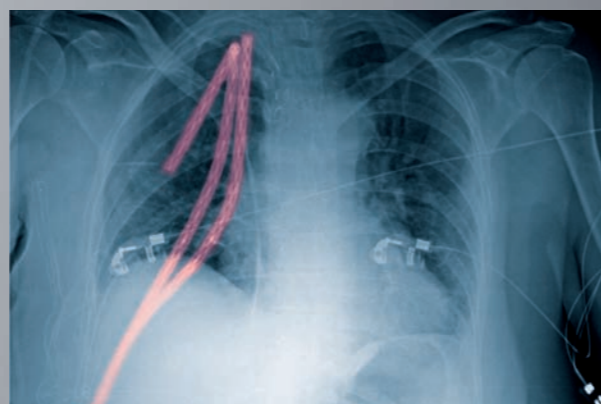
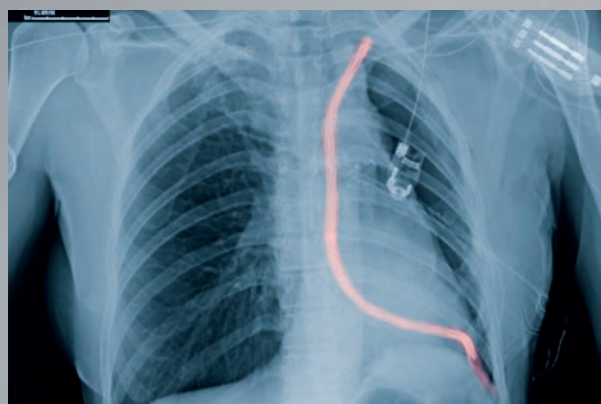
## CARDIAC SURGERY:

– Ministernotomy – CABG By-pass – CABG and valvular replacement and reconstruction



## THORACIC APPLICATIONS:

– VATS Video-Assisted-Thoracoscopy-Surgery – Lobectomy – Wedge Resection



KARDIA SPIRAL	Code
6 mm - CH 19	25019
8 mm - CH 24	25024

PACKAGING: 10 PIECES PER BOX

### CONNECTORS & ADAPTERS

Description	Size	Code
Straight Connector for Kardia Spiral	24	10507
Y-piece 3/8' Connector for Kardia Spiral	24	10517
Y-piece 1/4' Connector for Kardia Spiral	24	10505
Straight Connector for Kardia Spiral	19	10527
Y-piece 3/8' Connector for Kardia Spiral	19	10518
Y-piece 1/4' Connector for Kardia Spiral	19	10513

PACKAGING: 50 PIECES PER BOX

### Clinical support:

- **A. Terzi, F. Calabrò** - *The use of flexible spiral drains after non-cardiac thoracic surgery* European Journal of Cardio-Thoracic Surgery, 27 (2005) 134-137.
- **R. A. Lancey** - *The use of smaller, more flexible chest drains following open heart surgery* Chest, 119 (2001) 19-24.
- **J. A. Obney** - *A method for mediastinal drainage after cardiac procedures using small silastic drains* Ann. Thorac Surgery 70 (2000) 1109-1010.

### Photography by:

- University Hospital of Verona, Thoracic Department (**Prof. F. Calabrò**)
- S. Croce e Carle Hospital of Cuneo, Thoracic Department (**Dr. A. Terzi**)
- Arcispedale S. Maria Nuova of Reggio Emilia (**Dr. F. Biolchini**)
- San Filippo Neri Hospital of Roma (**Dr. A. Costantino**)



# KARDIA SPIRAL®

NEW SOLUTION FOR CARDIO-THORACIC DRAINAGE.

Works in every positioning through patented spiral design.

Improves drainage flow with no risk of clotting.

Ideal for Mini-Sternotomy Cardiac procedures.

Suggested in VAT Video-Assisted-Thoracoscopy use.

Reduces pain and trauma for patient allowing early mobilization.



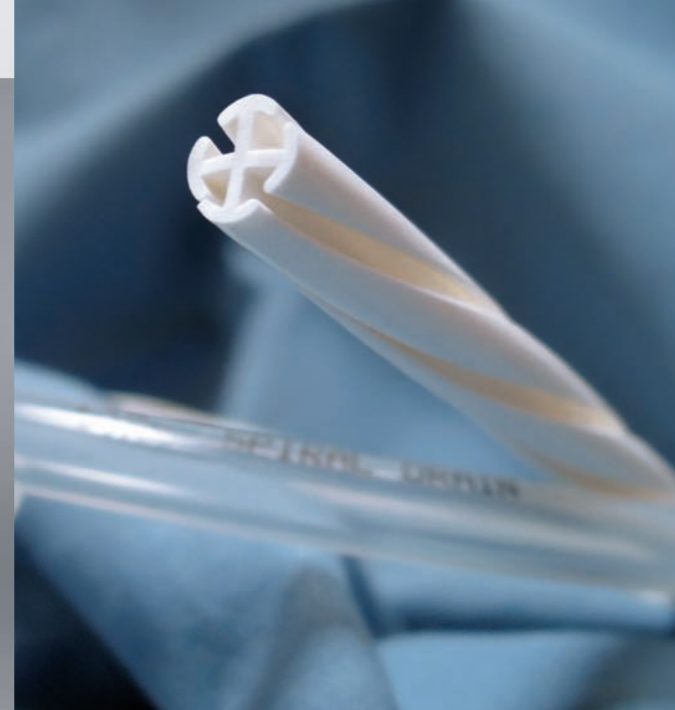
REDAX S.r.l. Via Galileo Galilei, 18 - 46025 Poggio Rusco (MN) ITALY  
Tel. +39 0386 830582 Fax +39 0386 51898 - E-mail: info@redax.it - www.redax.it





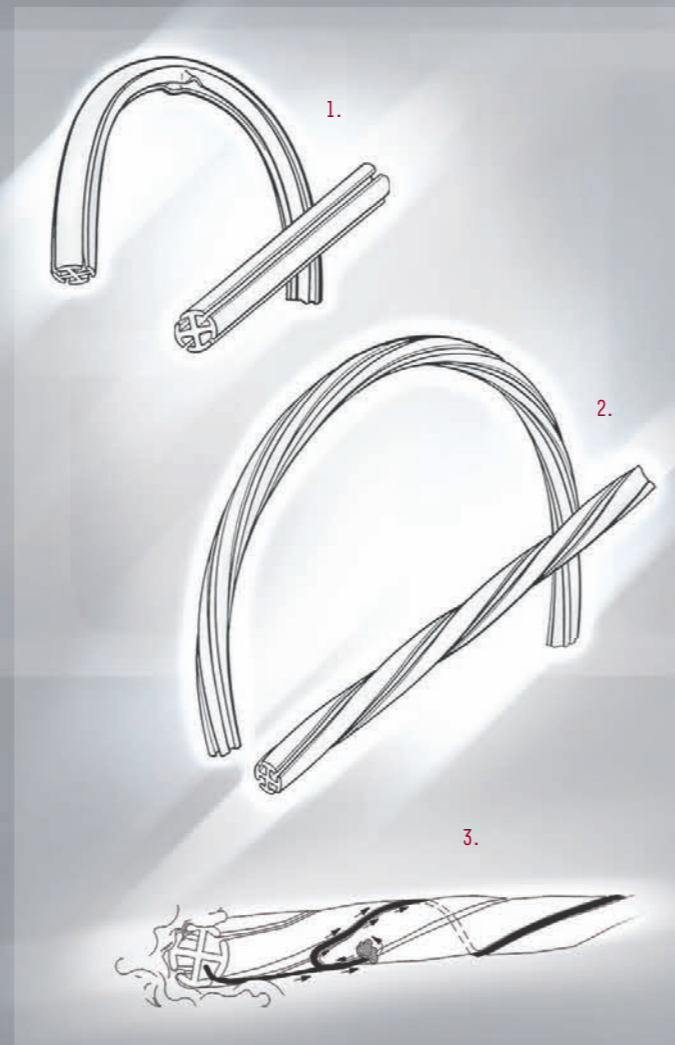
## WHY KARDIA SPIRAL?

- Maintains capillary effect in any situation.
- Works in every position.
- Allows a continuous and effective drainage avoiding tissue trauma.
- Increases patient's comfort through atraumatic profile.






## FEATURES AND BENEFITS

- Drains also when subject to tractions or unusual positioning.
- Spiral design offers alternative drainage routes to eliminate blocking from blood clots.
- Four narrow helical ducts enhance drainage flow as much as ten times the standard fluted performance (see comparative table).
- Higher efficiency allowing use of a smaller size than a standard fenestrated drain.



## SPIRAL DRAIN VS. STRAIGHT FLUTED DRAIN:

Possibility of occlusion and kinking when a standard drain is positioned in curved placement or subject to traction (see drawing 1). Using Spiral profile avoids risk of collapsing, allowing a continuous drainage effect (see drawing 2 & 3).

Kardia Spiral		Standard Drain	
Draining Surface (mm <sup>2</sup> )		Draining Surface (mm <sup>2</sup> )	
 CH 19	1612	 CH 19	168
 CH 24	2280	 CH 24	331

## KARDIA SPIRAL:

*Ideal for Cardiac and Minimally Invasive Surgery.*

## HIGH DRAINAGE PERFORMANCE

- Permits lower size 19/24 CH compared to 28/36 CH conventional chest catheters.
- Spiral design provides greater drainage surface than regular perforated drains.
- Smaller and softer drain reduces tissue trauma and pain for patient.
- Helical ducts maintains multiple drainage routes avoiding risk of total occlusion.
- Less patient discomfort upon removal allowing early mobilization.

