Universal Left Ventricular Apical Ring

Tech ID: UA18-052

Title: Universal Left Ventricular Apical Ring

Invention: This invention is a ring that is sewn on to the exterior of the heart to secure a cannula by locking it into place. It is self-sealing and designed to be compatible with many ventricular assist devices (VAD). During surgery, this device would allow surgeon to easily switch cannula to a VAD without much bleeding.

Background: When performing heart surgery, sometimes a cannula is inserted into the left ventricle to drain blood and pump blood in for continuous circulation. With current apical ring technology, it is difficult to insert a trans-apical cannula and then changed it to a left ventricular assist device easily without losing too much blood. A self-sealing apical ring is needed.

Applications:

• Heart Surgery

Advantages:

• Ease of use
• Self-sealing
• Universal

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