The AngioVac cannula is intended for use as a venous drainage cannula and for the removal of fresh, soft thrombi or emboli during extracorporeal bypass for up to six hours.

The cardiopulmonary bypass circuit is intended for use in procedures requiring extracorporeal circulatory support for periods of up to six hours.
Utilizing off-the-shelf pump, filter, and reinfusion cannula, the AngioVac cannula system facilitates venous drainage as part of an extracorporeal bypass procedure for up to six hours.
AngioVac – How it Works

Proprietary funnel shaped tip:
- Enhances venous drainage flow when balloon is inflated
- Prevents clogging of the cannula and facilitates en bloc removal of commonly encountered fresh, soft thrombi or emboli

22F coil-reinforced cannula with balloon actuated expanding tip
Product Enhancements

Proprietary Funnel Tip Design
- Available with either a straight or 20 degree angled tip
- Angled tip aids in navigation for potentially easier placement within the vasculature
- Radiopaque markers allow for visualization under fluoroscopic imaging
- Funnel tip enhances venous drainage flow and prevents clogging of the cannula with commonly encountered fresh, soft thrombi or emboli

Working Side Port, Touhy Insert
- Y-Adapter with Touhy insert allows for over-the-wire capability through the working side port and accommodates up to an 18F adjunctive device
- Hydrophilic coating on the obturator allows for easier insertion through the Y-Adapter and AngioVac cannula
Product Enhancements

Quick Connect, Inflation Lumen
- Quick connectors allow for greater efficiency and ease of use in the surgical field. The rotating adapter allows for rotation of the AngioVac cannula without twisting or kinking the circuit tubing.

- The inflation lumen is more robust, decreasing the potential for bending or kinking; the inclusion of a stopcock allows for the balloon inflation to be maintained and the endoflator to be removed.

Angio-Sac Collection System
- ‘T-piece’ between the filter and pump head allows for drainage of fluid into an Angio-Sac collection system. This provides clearer visualization of the fresh, soft thrombi or emboli captured in the filter.

- Angio-Sac eliminates the need to administer additional fluid to patients in order to flush the filter and visualize material.
AngioVac Cannula Placements

Superior Vena Cava (SVC)

Right Atrium (RA)

Inferior Vena Cava (IVC)
Actual Procedural Results*

Dr. Pete Fong, IC
Vanderbilt University Med. Ctr.
Right Atrial Thrombus

Dr. Michael Klyachkin, VS
MCCG, Macon, GA
IVC Thrombus

* An individual experience may not be indicative of all procedure results
AngioVac Procedure Kit

AngioVac Circuit & Cannula

Additional procedural products:
• Inflation device
• Micropuncture kit
• 26F Gore DrySeal sheath
• Arterial Re-infusion cannula
• Extra Stiff wire – exchange length
• Dilator set
• Centrifugal pump & pump head

Terumo bubble trap
CANNULA INDICATIONS FOR USE: The AngioVac Cannula is indicated for use as a venous drainage cannula and for removal of fresh, soft thrombi or emboli during extracorporeal bypass for up to six hours.

CIRCUIT INDICATIONS FOR USE: The AngioVac Circuit is indicated for use in procedures requiring extracorporeal circulatory support for periods of up to six hours.

CONTRAINDICATION: Do not use if the patient has severe arterial or venous vascular disease. The device is contraindicated in the removal of fibrous chronically adherent intravascular material (e.g., atherosclerotic plaque, chronic pulmonary embolism). The device is contraindicated for use in the right heart or pulmonary arteries during active cardiopulmonary resuscitation.

WARNING: Selection of the patient as a candidate for use with this device and for such procedures as it is intended is the physicians’ sole responsibility. The outcome is dependent on many variables including, patient pathology, surgical procedure, and perfusion procedure/technique. The benefits of use of this device must be weighed against the risk of systemic anticoagulation and must be assessed by the prescribing physician.

CAUTION: Federal (USA) law restricts these devices to sale by or on the order of a physician. Alone, the cannula is not a medical device.

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