Conventional Cannulae That’s Anything But Conventional

Optiflow Arterial Cannulae
Less Jet, More Natural Dispersion

Optiflow Arterial Cannulae Animation
This short video animation focuses on the clinical challenge of aortic arch plaque embolization.

Venous Conventional Adult Cannulae
When it comes to venous cannulae, the more options to choose from the better.

Venous Conventional Pediatric Cannulae
Achieve Optimal Venous Drainage in a Wider Range of Patients

Arterial Conventional Adult Cannule Options for the Full Range of Clinical Needs

Arterial Conventional Pediatric Cannulae Small patients. Big portfolio.
We are proud to announce the FDA clearance and U.S. launch of the Optiflow Arterial Cannula family and its novel, dispersive tip design. View our press release which includes a quote from Dr. Alexander Assmann describing the remarkable decrease in wall shear stress profiles and turbulence that our dispersive cannula tip affords to surgeons. For conventional cardiac surgery, we have a comprehensive portfolio of solutions in a wide range of tips and sizes to meet all your procedural needs.

Whether your needs are for adult, pediatric or any age in between, we’ve got you covered. Please visit our product highlights section where you can learn more about our conventional cannulae offering including our recently FDA-approved Optiflow cannulae family. Optiflow venous cannula delivers high drainage capability with a 13 cm holed area. Venous cannula is available in single, dual or triple stage, and the dual stage is available with low profile tubing for less intrusion into the operative field. Or our aortic arch cannula that offers several tip designs and configurations for maximum clinical flexibility. And our cardioplegia and vent offering gives you a choice of sizes and designs for all access points.

In our multimedia section, we added one animation that demonstrates the features of Optiflow Arterial Cannula. As you may be aware, plaque dislodgements from the aortic wall may induce neurological complications in adult patients undergoing extracorporeal circulation (ECC) in cardiac surgery. Embolization of these plaques is correlated with high wall shear stress from the placement of aortic cannulae in the aortic arch. Optiflow helps to reduce shear stress on the aortic wall, thanks to its unique, 3-dimensional dispersion basket tip designed to reduce the pressure gradient along the cannula, allowing for more natural physiological flow that reduces wall shear stress by up to 50%.


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PRODUCT HIGHLIGHTS

Arterial Conventional Adult Cannulae
Options for the Full Range of Clinical Needs.

Our aortic arch cannulae offer you a multitude of configurations, sizes and insertion options. Choose from curved or straight tip, white or transparent plastic, one of two different lengths, and suture flange, collar or double-collar depending on your fixation needs. An optional luer lock is available for better de-airing.

All options feature our unique three-dimensional dispersion tip that allows for more gentle flow in the aorta to reduce wall shear stress, which can reduce the risk of plaque embolization that can lead to stroke or ischemia of other organs.

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PRODUCT HIGHLIGHTS

Venous Conventional Adult Cannulae
When it comes to venous cannulae, the more options to choose from the better.

Optiflow Venous cannulae features our exclusive 13 cm swirled and grooved tip design with multiple side holes to facilitate active and physiological venous drainage regardless of the position of the heart. It’s more compact than standard cannulae, making it easier to insert and remove while maintaining an improved field of view in narrow spaces. And the special tip can help reduce patient complications associated with femoral venous cannulation. Our Triple State Venous Cannulae feature an open lighthouse tip for atraumatic insertion and three points of drainage for improved hemodynamics. Like Optiflow, its compact design provides an optical field of view, making it ideal for minimally invasive and vacuum assisted procedures.

Finally, our venous return cannulae are designed with thinner walls for excellent hemodynamics and low pressure drop across the entire cannulae. They are available in dual and single stage, with open lighthouse tip and one-piece construction for atraumatic insertion and optimal drainage.

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**PRODUCT HIGHLIGHTS**

**Arterial Conventional Pediatric Cannulae**
Small patients. Big portfolio.

LivaNova offers a comprehensive cannulae portfolio designed specifically for the small aortic arch of pediatric patients. With our curved tip aortic arch cannulae, the tubing is clear and transparent for better visibility, and designed without plasticizers for improved biocompatibility.

**Venous Conventional Pediatric Cannulae**
Achieve Optimal Venous Drainage in a Wider Range of Patients.

A variety of configurations are available. This includes curved or straight tips, a 135 degree tip for better centralized flow, tubing with or without wire reinforcement and connectors with optional luer lock. Versions without connectors can accommodate ¼” or 3/16” tubing to fit all extracorporeal tubing sizes.

**PRODUCT HIGHLIGHTS**

**Arterial Conventional Pediatric Cannulae**
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**Venous Conventional Pediatric Cannulae**
Single stage venous cannulae are available in sizes from 10 to 20 Fr to accommodate a wider range of patients, from neonates to small adults. Both straight and right angled tips are available for different types of venous insertion. The 90 degree tip angle features a central opening and lateral distal holes to improve venous drainage, and all tips feature a rigid design that can help to reduce the damaging of delicate pediatric vessels.

Polyurethane cannulae offer optimal flow characteristics, resulting from the soft tubing and very thin wall thickness, as well as improved biocompatibility.

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This product may not be for sale in your country or your area. For further information on product availability, please contact your local representative. For indications, contraindications, precautions and warnings for each device, please refer to the Instructions For Use.
VIDEO

Optiflow Arterial Cannulae Video Animation
This short video animation focuses on the clinical challenge of aortic arch plaque embolization.

There is strong evidence that the embolization and dislodgement of atherosclerotic plaques from the aortic wall may be caused by high wall shear stress resulting from aortic inlet cannulation during cardiac surgery. This can result in neurological complications, including stroke, or ischemia of other organs such as kidney, liver or intestine.

This short video animation focuses on the clinical challenge of aortic arch plaque embolization that results from the jet stream of a standard aortic arch cannula. It demonstrates how Optiflow arterial cannulae’s unique dispersion tip and more gentle flow reduces aortic wall shear stress to avoid this problem, under pulsatile and non-pulsatile ECC conditions.