FIND YOUR IDEAL
BIO-MEDICUS™
NEXTGEN
CANNULAE

Medtronic
Further, Together
Versatility was high on our list when we considered recent enhancements to Bio-Medicus™ Cannulae. Today’s next generation models offer convenience of use beyond traditional femoral access and expand your alternative access options for cardiopulmonary bypass cases.

**Bio-Medicus™ NextGen Femoral Arterial/Jugular Venous Cannulae**

Now indicated for jugular venous usage

Traditional femoral arterial insertion achieves high flow rates with minimal pressure differential.

**Jugular venous position** offers enhanced return with high flow rates and minimal pressure differential.

**Important Safety Information**

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, and warnings, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.
**Bio-Medicus™ NextGen Femoral Venous Cannulae**

Bi-caval capability with optimized basket placement enables increased venous drainage; ideal for MICS or traditional cases.

Bio-Medicus NextGen is designed to enable right atrium occlusion.

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**Venous Pressure Drop vs. Flow**

Flow rate (L/min of water) at room temperature

Traditional IVC/atrial junction position promotes efficient venous drainage.
Bio-Medicus™ NextGen Cannulae offer ease of insertion and are engineered for smooth transitions. Fingerlet supports are formed into the tapered tip to create an even smoother transition between the introducer and the thin cannula wall. All of these advanced Bio-Medicus Cannulae design features add up to your opportunity for an easier insertion.

Over 30 enhancements packed into adult and pediatric models.

Bio-Medicus NextGen Femoral Venous Cannulae

Smaller Patients — Big Options.
Bio-Medicus NextGen Pediatric Arterial and Venous Cannulae offer all of the improved insertability and hemostasis management features of our adult models. A tapered solid core and a percutaneous-style non-phthalate PVC introducer are now standard in each package. Pediatric percutaneous introducers are designed for placement over a 0.025-mm guidewire. These products are manufactured without DEHP.
Hemostasis Management — The Right Fit

Our cap and introducer design offers improved function. The increased friction fit between cap and introducer helps prevent backing out when inserting or advancing in the vessel. The introducer hub’s smaller guidewire opening also equates to a 75% reduction in blood loss.¹

1. Medtronic data on file.

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**Bio-Medicus™ NextGen Cannulae with Introducer**
Keep tubing and cannulae organized during your procedure by securing them into the retention clip. Adapt larger venous cannulae to a 1/2-inch venous line via the tubing adapter.

**Package Contents**
- Arterial/Jugular or Venous Cannula with introducer, hemostasis cap, adjustable radiopaque suture ring
- 1/2-in (1.27-cm) to 3/8-in (0.95-cm) tubing adapter (included only with venous models 23 Fr, 25 Fr, 27 Fr, 29 Fr)
- Cannula/tubing retention clip

**Bio-Medicus™ NextGen Pediatric Cannulae with Introducers**
For your smallest patients, a tapered solid core and a percutaneous-style introducer is standard in each package. Contents are securely packaged in retention clip for easier transfer into the sterile field.

**Package Contents**
- Arterial or Venous Cannula, hemostasis cap, adjustable radiopaque suture ring
- Tapered solid core and percutaneous-style introducer
- Cannula/tubing retention clip

**Important Safety Information**
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Bio-Medicus™ NextGen Cannula Kits
Choose your Cannula Kit — Femoral Arterial/Jugular Venous or Femoral Venous options are available with a standard set of insertion components. A new non-corrugated carton design makes this kit a convenient shelf-ready choice.

Package Contents (2 sterile pouches)

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arterial/Jugular or Venous Cannula with introducer, hemostasis cap, adjustable radiopaque suture ring</td>
<td>1 each</td>
<td>0.038-in (0.965-mm) diameter guidewire; 180-cm (70.87-in) length included in venous models</td>
<td>1 each</td>
</tr>
<tr>
<td>0.038-in (0.965-mm) diameter guidewire; 100-cm (39.37-in) length included in arterial/jugular models</td>
<td>1 each</td>
<td>1/2-in (1.27-cm) to 3/8-in (0.95-cm) tubing adapter (included only with venous models)</td>
<td>1 each</td>
</tr>
<tr>
<td>0.038-in (0.965-mm) diameter guidewire; 100-cm (39.37-in) length included in arterial/jugular models</td>
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<td>1 each</td>
</tr>
<tr>
<td>Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr, 16 Fr/18 Fr, plus (1) additional dilator (included only with 21 Fr, 23 Fr, 25 Fr, 27 Fr, 29 Fr models)</td>
<td>1 each</td>
<td>#11 scalpel blade, Seldinger needle, 18-ga (1.02-mm)</td>
<td>1 each</td>
</tr>
<tr>
<td>#11 scalpel blade, Seldinger needle, 18-ga (1.02-mm)</td>
<td>1 each</td>
<td>Cannula/tubing retention clip</td>
<td>1 each</td>
</tr>
</tbody>
</table>

Bio-Medicus™ NextGen Insertion Kits
Our adult and pediatric sized Insertion Kits offer components for peripheral cannulation via Seldinger technique. Cannulae are sold separately.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Venous 96551 (5 units per carton)</td>
<td>0.038-in (0.965-mm) x 180-cm (70.87-in) guidewire</td>
<td>1 each</td>
</tr>
<tr>
<td></td>
<td>Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr, and 16 Fr/18 Fr</td>
<td>1 each</td>
</tr>
<tr>
<td></td>
<td>#11 scalpel blade, (1) each 10-cc syringe</td>
<td>1 each</td>
</tr>
<tr>
<td></td>
<td>Seldinger needle, 18-ga (1.02-mm)</td>
<td>1 each</td>
</tr>
<tr>
<td>Arterial 96552 (5 units per carton)</td>
<td>0.038-in (0.965-mm) x 100-cm (39.37-in) guidewire</td>
<td>1 each</td>
</tr>
<tr>
<td></td>
<td>Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr, and 16 Fr/18 Fr</td>
<td>1 each</td>
</tr>
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<td></td>
<td>#11 scalpel blade, (1) each 10-cc syringe</td>
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</tr>
<tr>
<td></td>
<td>Seldinger needle, 18-ga (1.02-mm)</td>
<td>1 each</td>
</tr>
<tr>
<td>Pediatric 96553 (5 units per carton)</td>
<td>0.025-in (0.535-mm) x 60-cm (23.62-in) guidewire</td>
<td>1 each</td>
</tr>
<tr>
<td></td>
<td>Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr</td>
<td>1 each</td>
</tr>
<tr>
<td></td>
<td>#11 scalpel blade, (1) each 10-cc syringe</td>
<td>1 each</td>
</tr>
<tr>
<td></td>
<td>Seldinger needle, 18-ga (1.02-mm)</td>
<td>1 each</td>
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</tbody>
</table>
Ordering Information

Adult cannula models with introducer are available as a stand-alone single item or as kit with insertion components.

Femoral Arterial/Jugular Venous Cannulae
(1 unit per carton)

<table>
<thead>
<tr>
<th>Cannula Code</th>
<th>Cannula &amp; Kit Code</th>
<th>French Size</th>
<th>Overall Length</th>
<th>Tip Length</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>96570-115</td>
<td>96530-115</td>
<td>15 Fr (5.0-mm)</td>
<td>31.8-cm</td>
<td>18.0-cm</td>
<td>¼-in (0.95-cm), vented</td>
</tr>
<tr>
<td>96570-117</td>
<td>96530-117</td>
<td>17 Fr (5.7-mm)</td>
<td>31.8-cm</td>
<td>18.0-cm</td>
<td>¼-in (0.95-cm), vented</td>
</tr>
<tr>
<td>96570-119</td>
<td>96530-119</td>
<td>19 Fr (6.3-mm)</td>
<td>31.8-cm</td>
<td>18.0-cm</td>
<td>¼-in (0.95-cm), vented</td>
</tr>
<tr>
<td>96570-121</td>
<td>96530-121</td>
<td>21 Fr (7.0-mm)</td>
<td>31.8-cm</td>
<td>18.0-cm</td>
<td>¼-in (0.95-cm), vented</td>
</tr>
<tr>
<td>96570-123</td>
<td>96530-123</td>
<td>23 Fr (7.7-mm)</td>
<td>31.8-cm</td>
<td>18.0-cm</td>
<td>¼-in (0.95-cm), vented</td>
</tr>
<tr>
<td>96570-125</td>
<td>96530-125</td>
<td>25 Fr (8.3-mm)</td>
<td>31.8-cm</td>
<td>18.0-cm</td>
<td>¼-in (0.95-cm), vented</td>
</tr>
</tbody>
</table>

Pediatric Arterial Cannulae with Introducers
(1 unit per carton) 22.9-cm overall length

<table>
<thead>
<tr>
<th>Code</th>
<th>French Size</th>
<th>Tip Length</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>96820-108</td>
<td>8 Fr (2.7-mm)</td>
<td>10.0-cm</td>
<td>¼-in (0.64-cm), non-vented</td>
</tr>
<tr>
<td>96820-110</td>
<td>10 Fr (3.3-mm)</td>
<td>10.5-cm</td>
<td>¼-in (0.64-cm), non-vented</td>
</tr>
<tr>
<td>96820-112</td>
<td>12 Fr (4.0-mm)</td>
<td>11.0-cm</td>
<td>¼-in (0.64-cm), non-vented</td>
</tr>
<tr>
<td>96820-114</td>
<td>14 Fr (4.7-mm)</td>
<td>11.5-cm</td>
<td>¼-in (0.64-cm), non-vented</td>
</tr>
</tbody>
</table>

Femoral Venous Cannulae
(1 unit per carton)

<table>
<thead>
<tr>
<th>Cannula Code</th>
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<tbody>
<tr>
<td>96670-115</td>
<td>96600-115</td>
<td>15 Fr (5.0-mm)</td>
<td>64.8-cm</td>
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<tr>
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</tr>
<tr>
<td>96670-119</td>
<td>96600-119</td>
<td>19 Fr (6.3-mm)</td>
<td>69.9-cm</td>
<td>55.0-cm</td>
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<td>96670-121</td>
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<td>¼-in (0.95-cm), non-vented</td>
</tr>
<tr>
<td>96670-123*</td>
<td>96600-123*</td>
<td>23 Fr (7.7-mm)</td>
<td>76.2-cm</td>
<td>60.0-cm</td>
<td>¼-in (0.95-cm), non-vented</td>
</tr>
<tr>
<td>96670-125*</td>
<td>96600-125*</td>
<td>25 Fr (8.3-mm)</td>
<td>76.2-cm</td>
<td>60.0-cm</td>
<td>¼-in (0.95-cm), non-vented</td>
</tr>
<tr>
<td>96670-127*</td>
<td>96600-127*</td>
<td>27 Fr (9.0-mm)</td>
<td>76.2-cm</td>
<td>60.0-cm</td>
<td>¼-in (0.95-cm), non-vented</td>
</tr>
<tr>
<td>96670-129*</td>
<td>96600-129*</td>
<td>29 Fr (9.7-mm)</td>
<td>76.2-cm</td>
<td>60.0-cm</td>
<td>¼-in (0.95-cm), non-vented</td>
</tr>
</tbody>
</table>

Pediatric Venous Cannulae with Introducers
(1 unit per carton) 22.9-cm overall length

<table>
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<tr>
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<th>Connector</th>
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</tr>
<tr>
<td>96830-114</td>
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</tr>
</tbody>
</table>

Insertion Kits
(5 units per carton)

<table>
<thead>
<tr>
<th>Code</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>96551</td>
<td>Venous</td>
</tr>
<tr>
<td>96552</td>
<td>Arterial/Jugular</td>
</tr>
<tr>
<td>96553</td>
<td>Pediatric Arterial/Venous</td>
</tr>
</tbody>
</table>

For more information, contact your local Medtronic Cannula Products Representative. U.S. Customer Service: 1 (800) 328-1357. Products are subject to availability in each geography.

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