Arrow-Berman™ Angiographic Catheter

Preferred by nine out of ten physicians for minimizing perforation risk and trauma in pediatric cardiac catheterization.
**Arrow-Berman™ Angiographic Catheter**

**Only Arrow carries the catheter with the original proven design of Dr. Michael A. Berman.**

Using a balloon catheter in angiography keeps the catheter away from the myocardium, reducing the possibility of arrhythmias or staining from dye injection. More important is the perforation protection the balloon offers during high-pressure injection.

**In-package syringes with “stops” help you avoid overinflation.**

Arrow includes an appropriately sized syringe with a stop with each catheter to deter overinflation of the latex balloon.1

**Pulmonary angiography and other additional uses.**

The catheter may be used for pulmonary angiography and for the ipsilateral approach in Balloon Occlusion Femoral Angiography. If a patent foramen ovale or a septal defect exists, the catheter may be passed into the left ventricle and aorta for sampling, pressure measurements, or angiographic studies. The use of a single catheter for the entire procedure can reduce the trauma and blood loss.

**Catheter Length Markings**

Each catheter has clear, easy to identify increment markings every 10cm along catheter body to confirm insertion depth.

**New higher flow rates.**

With new junction hub and extension line design, the Arrow-Berman™ Angiographic Catheter offers even higher flow rates. See details on back page.

**Torque control keeps you in control.**

Arrow polyvinyl chloride (PVC) catheters offer a greater control over manipulation than catheters of standard materials.

**Wide range of sizes and lengths allow for more accurate matching of patient needs to catheter size.**

Arrow-Berman™ Angiographic Catheters are available in French sizes 4, 5, 6, 7 and 8 — more sizes than from any other manufacturer.

**Smooth, flexible catheter body facilitates insertion.**

Also allows blood flow to carry the inflated balloon naturally through the ventricle and into the pulmonary artery. Catheter tip position may be determined by continuous monitoring of pressure or by monitoring the radiopaque catheter body with fluoroscopy.

**Convenient packaging.**

Each catheter is packaged in a sterile peel-pack tray with an appropriately sized syringe.1

**Balloon Occlusion Femoral Angiography**

When the “run-off” method doesn’t provide the details you need to make a confident diagnosis, Balloon Occlusion Femoral Angiography (B.O.F.A.) could provide the answers.

B.O.F.A. provides excellent visualization of the planter arch and foot vessels for improved diagnosis of severe peripheral vascular disease.3

This technique can reduce patient X-ray exposure, contrast dose, retake rate, and cost. The accuracy of exposure timing can also be improved.

For the ipsilateral approach, Arrow-Berman™ Angiographic Catheters permit injection of contrast medium behind the inflated balloon.*

For the contralateral approach, Arrow Wedge-Pressure Catheters permit injection of contrast medium ahead of the inflated balloon.

**Videotape offered.**

We have prepared a detailed procedural videotape and invite you to review it for 20 days, free.

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* See Berman Catheters for B.O.F.A. on back page.
**Reverse Arrow-Berman™ Catheter for Selective Pulmonary Occlusion Angiography Studies**

For selective pulmonary occlusion angiography studies, the balloon is inflated to provide surface contact with the pulmonary artery wall to achieve full occlusion for a moment while contrast solution is injected. The balloon is then deflated allowing blood to flush the contrast solution into the pulmonary vasculature and at the same time pictures of this activity are taken to access the patient’s pulmonary condition.

**Arrow-Berman™ Angiographic Catheter**

**Product Information**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>French Size</th>
<th>Introducer Size</th>
<th>Max. Inflated Capacity</th>
<th>Inflated Balloon Diameter</th>
<th>Max. French Wire Diameter</th>
<th>Max. Injection Flow Rate</th>
<th>Improved Injection Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI-07130</td>
<td>5 Fr.</td>
<td>5 or 6 Fr.</td>
<td>3/4cc</td>
<td>8mm</td>
<td>.032&quot;</td>
<td>15cc/sec</td>
<td>540 p.s.i.g.</td>
</tr>
<tr>
<td>AI-07130-J</td>
<td>5 Fr.</td>
<td>5 or 6 Fr.</td>
<td>3/4cc</td>
<td>8mm</td>
<td>.032&quot;</td>
<td>13cc/sec</td>
<td>540 p.s.i.g.</td>
</tr>
<tr>
<td>AI-07131</td>
<td>6 Fr.</td>
<td>6 or 7 Fr.</td>
<td>1cc</td>
<td>10mm</td>
<td>.035&quot;</td>
<td>20cc/sec</td>
<td>650 p.s.i.g.</td>
</tr>
<tr>
<td>AI-07132</td>
<td>7 Fr.</td>
<td>7 or 8 Fr.</td>
<td>1-1/4cc</td>
<td>11mm</td>
<td>.038&quot;</td>
<td>24cc/sec</td>
<td>700 p.s.i.g.</td>
</tr>
<tr>
<td>AI-07133</td>
<td>8 Fr.</td>
<td>8 or 9 Fr.</td>
<td>1-1/4cc</td>
<td>11mm</td>
<td>.038&quot;</td>
<td>35cc/sec</td>
<td>800 p.s.i.g.</td>
</tr>
<tr>
<td>AI-07134</td>
<td>4 Fr.</td>
<td>5 Fr.</td>
<td>6/10cc</td>
<td>6-1/2mm</td>
<td>.021&quot;</td>
<td>6cc/sec</td>
<td>600 p.s.i.g.</td>
</tr>
<tr>
<td>AI-07135-J</td>
<td>5 Fr.</td>
<td>5 or 6 Fr.</td>
<td>3/4cc</td>
<td>8mm</td>
<td>.032&quot;</td>
<td>12cc/sec</td>
<td>540 p.s.i.g.</td>
</tr>
<tr>
<td>AI-07136-J</td>
<td>6 Fr.</td>
<td>6 or 7 Fr.</td>
<td>1cc</td>
<td>10mm</td>
<td>.035&quot;</td>
<td>18cc/sec</td>
<td>650 p.s.i.g.</td>
</tr>
<tr>
<td>AI-07137-J</td>
<td>7 Fr.</td>
<td>7 or 8 Fr.</td>
<td>1-1/4cc</td>
<td>11mm</td>
<td>.038&quot;</td>
<td>24cc/sec</td>
<td>600 p.s.i.g.</td>
</tr>
<tr>
<td>AI-07138</td>
<td>8 Fr.</td>
<td>8 or 9 Fr.</td>
<td>1-1/4cc</td>
<td>11mm</td>
<td>.038&quot;</td>
<td>42cc/sec</td>
<td>750 p.s.i.g.</td>
</tr>
</tbody>
</table>

This catheter can also be used for aortic angiographic studies in the pediatric population. The indications for use of this catheter could include transposition of the great vessels or Tetrology of Fallot, among others.

**Reverse Arrow-Berman™ Catheter for Selective Pulmonary Occlusion Angiography Studies**

**Product Information**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Fr. Size</th>
<th>Useable Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI-07037</td>
<td>7 Fr.</td>
<td>110cm</td>
</tr>
<tr>
<td>AI-07035</td>
<td>5 Fr.</td>
<td>80cm</td>
</tr>
</tbody>
</table>

(continued on next page)
## Arrow-Berman™ Angiographic Catheters for Balloon Occlusion Femoral Angiography (B.O.F.A.) Ipsilateral Approach

<table>
<thead>
<tr>
<th>Product No.</th>
<th>French Size</th>
<th>Introducer Size Recom’d</th>
<th>Useful Length</th>
<th>Max. Inflation Capacity</th>
<th>Inflated Balloon Diameter</th>
<th>Max. Wire Recom’d</th>
<th>Max. Injection Flow Rate</th>
<th>Max. Injection Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI-07137</td>
<td>7 Fr.</td>
<td>7 or 8 Fr.</td>
<td>110 cm</td>
<td>1.1-4/sec</td>
<td>11 mm</td>
<td>0.83”</td>
<td>24 cc/sec</td>
<td>600 p.s.i.</td>
</tr>
<tr>
<td>AI-07136</td>
<td>6 Fr.</td>
<td>6 or 7 Fr.</td>
<td>90 cm</td>
<td>1 cc</td>
<td>10 mm</td>
<td>0.35”</td>
<td>18 cc/sec</td>
<td>650 p.s.i.</td>
</tr>
<tr>
<td>AI-07135</td>
<td>5 Fr.</td>
<td>5 or 6 Fr.</td>
<td>80 cm</td>
<td>3/cc</td>
<td>8 mm</td>
<td>0.32”</td>
<td>12 cc/sec</td>
<td>540 p.s.i.</td>
</tr>
</tbody>
</table>

1) Contact Arrow for available sizes.

2) Except 4 Fr. where balloon is 4-1/2 Fr.

3) balloon is 4-1/2 Fr.

4) Videotape prepared in conjunction with Curatech, Inc.


6) Also used as Balloon Occlusion Catheter with multiple holes proximal to the balloon. (Balloon angiography catheters with multiple holes distal to balloon are now available. See Reverse Arrow-Berman™).

7) The recommended Arrow Introducer with side arm access is one French size larger than the catheter size. The recommended minimum size introducer without side arm access is the same French size as the catheter excluding the 4 Fr. catheter.

8) CO2 is the recommended inflation media. See instructions for use prior to using air. Do not use any liquid to inflate balloon.

9) Nominal.

10) Arrow-Berman™ Angiographic Catheters are closed at the distal. However, a guide wire may be cautiously inserted to firm catheter during insertion but stop pushing wire at first sign of resistance near balloon to prevent internal damage.


12) Nominal. Measured at room temperature with Stratham P-23 db Transducer U.S. Federal Law limits this device to sale by or on order of a physician. Contents of unopened, undamaged package are sterile. Contains no medication. Disposable. Refer to package insert for current warnings, indications, contraindications, precautions, and instructions for use.

For more information, call your Arrow representative, or contact us by calling 800 523-8446 or 610 378-0131.

www.arrowintl.com

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