ARES™ Antibiotic-Impregnated Catheters
A FORMIDABLE WEAPON IN THE BATTLE AGAINST BACTERIA

Providing Protection to Patients
Who Is At Increased Risk for Shunt Infections?

Research shows that there is an increased risk of shunt valve infection in:

• Younger patients, especially premature infants
• Patients who have had a previous shunt infection
• Patients who have been on an external drainage system

ARES™ Antibiotic-Impregnated Catheters

The ARES™ Antibiotic-Impregnated Catheters reduce the colonization of gram-positive bacteria using a combination of rifampicin and clindamycin. Laboratory tests show the catheters provide antimicrobial activity for at least 156 days*, including the first month post-surgery when patients are most susceptible to shunt infections.¹⁻⁴

For added convenience, ARES Catheters were designed with the same diameters as our standard catheters for seamless connection to all Medtronic shunt valves, and numerical length marks to easily determine the placement depth of the ventricular catheter.

*Data on file.
The high rate of Shunt infection and failure

Approximately 40% of all shunts fail with the first 12 months following implantation. Infections are one of the more serious complications related to shunting, with incidence rates averaging 8-10%, and up to 20% among young children.

What happens if a shunt becomes infected?

Shunt infections are associated with much greater morbidity for patients, as well as increased costs to healthcare providers and society. Complications include:

- Additional surgeries and lengthened hospital stays
- Developmental disabilities and loss of IQ
- Death

Functional and convenient

- Impregnated with two antibiotics: rifampicin and clindamycin
- Shown to reduce colonization of gram-positive bacteria on all catheter surfaces
- Small quantity of antibiotics (less than a pediatric daily dose) results in low risk of toxicity
- Very low risk of resistance mutation due to dual antibiotics that are hard to resist simultaneously
- Numerical length marks clearly show depth of penetration during ventricular catheter placement

- Features same-sized tubing as our standard non-antibiotic-impregnated catheters to resist kinking and compression
- Designed to fit all Medtronic shunt valves
- Barium impregnation allows for visualization of the catheter on x-ray
- Non-ferrous design won’t interfere with CT scans or MRI
- Ventricular catheters include a stainless steel stylet and patented right-angle clip that provides a non-kinking bend in the catheter at the burr hole site
Ordering Information

91101  Ares Antibiotic-Impregnated Ventricular Catheter
Includes Right Angle Clip and Stainless Steel Stylet (not shown)

93092  Ares Antibiotic-Impregnated Peritoneal Catheter

95001  Ares Antibiotic-Impregnated Catheter Kit
Includes Ventricular and Peritoneal Catheter

References


For more information, contact your Medtronic NT sales representative or refer to [www.Medtronic.com](http://www.Medtronic.com).