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Introducing the be of catheter-related

ARROWg ard™*. The first and only central ven

Complications due to catheterrelated bacteremia are medically unacceptable when the causes are preventable. And in today's health-care climate, the monetary cost of treating nosocomial infection versus the cost of prevention is similarly unacceptable.

Fortunately, the forces of prevention have gained a new weapon,

ARROWg'ard" is a patented colo-

nizationresistant chlorhexidine and
silver sulfadiazine
antiseptic surface molecularly bonded into the polyurethane catheter material along the
entire indwelling length of each
ARROWgard* blue line CVC.

A recent study indicates that catheters with ARROWgard protection were twofold less likely to be colonized than control catheters and fourfold less likely to produce bacteremia. The study also noted a considerable lengthening of the safe indwelling period for ARROWgard catheters compared to control catheters.

ARROWg ard infection protection is presently available in select multilumen and single-lumen CVC kits. It will soon be available on other Arrow critical-care products.

The benefits of CVCs are not without risk

There is no question that central venous catheterization (CVC) represents

a significant medical advancement, particularly in treatment of the critically ill. However, with increased usage there is an increased risk of CVC-related infection

The reported frequency of intravascular device-associated bacteremia is between 0.2% and 0.5% for IV peripheral catheters, up to 7.0% for central parenteral nutrition catheters—and from 3.8% to 12.0% for central venous catheters. In short, 80% to 90% of each year's cases of intravascular-related bloodstream infection arise from the use of CVCs. Moreover, a 10% to 20% case fatality rate has been

associated with catheterrelated bacteremia?

In an address to

the Third International Conference on Nosocomial Infection

on Nosocomial Infections, Dr. Dennis Maki stated that one third of nosocomial infections are preventable, especially the 50,000 cases a year that develop from CVCs. Some 80% of these catheter-related infections arise from bacteria found on the skin that migrate down the catheter track, Dr. Maki noted.

Awareness is, of course, part of the battle. But more ammunition is needed. And that's why we developed ARROWg'ard".

More infection control means more financial control

In a study published in 1988

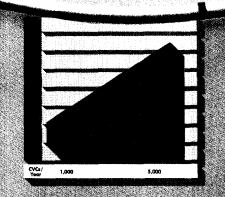
reporting 1986 results, Hampton and Sheretz determined that nosocomial infection added a mean of seven days to a normal hospital stay and increased the cost by a mean of more than \$6,000!

An additional downside: Medicare reimburses very little of the cost if a hospital stay is extended to treat bacteremia.

When you add the increases in cost since these studies were made, the economic impact of CVC-related infection is even more severe. And while new drugs to fight septic infections offer hope of better management in some crisis cases, the extreme costs pose a clinical dilemma for caregivers.

But ARROWg ard "can help reverse those spiraling figures.

Let's say that a hospital places 500 multi-lumen CVCs a year, If the infection rate is 4%, 20 infections result. By



*4% Infection Rate and \$6,000 Mean Cost ^{8,5}

Christal and Publication References: Jases, D.G., Wholder, S.J., Stele, S.M., Nermal C.A., Christal that of a provident account of control version catholise. Abstract of patient greater for Christal Intenditions, October 1, 1961. (Editor, 1965). Intervisional device infections. J. Med. Microbiol 27, 1971–1975, 1995. (Cooper, M., et al. Infections related to approximate organization device infections. J. Med. 1975–1975, 1995. (Cooper, M., et al. Infections related to approximate organization of the Cooper, 1995.) (Cooper, M., et al. Infections related to approximate organization of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, 1995). (Cooper, M., et al. Infections of the Cooper, 1995). (Cooper, 1995)

ginning of the end ed bacteremia.

3 catheters with built-in infection protection.

bringing the infection rate down to 2%, 10 cases would be avoided-and, at the figure of \$6,000 per case for added hospitalization, the added cost for infection would be cut in half, from \$120,000 to \$60,000. At a cost of \$68.20 per ARROWg'ard™ multi-lumen CVC kit, or \$34,100 for 500 multi-lumen CVCs, the hospital retains over half the savings*

deflects in case of inadvertent contact with the vessel walls to reduce perforation risk.

• Flexible thromoboresistant polyurethane material softens in situ for excellent indwelling characteristics.

• The Arrow Raulerson Introducer Syringe"

guide (.025" and .035" diameters available) aids in accurate and positive catheter placement.

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Not only does Arrow offer more benefits, but you have a wider choice of kits, sets, and accessories for central venous catheterization from Arrow than from any other source.

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We have prepared a helpful packet on infection control. It contains many of the articles referenced in this brochure and CVC informational literature. For your free packet, call your Arrow representative, or contact us directly by calling 1 800 233-3187, Ext. 3294, and ask for Joanne.



after subtracting the catheter cost. Even ore important than the economics, potentially, lives may be saved? Further, you must consider the unnecessary expenditure of time and energy on the pan of your staff and the trauma and suffering of the patient.

suffering of the patient.

Additional patient
and physician benefits.

Select Arrow multi-lumen and single-lumen central verious catheters now carry ARROW gard? protection. And there are other impressive benefits built into select ARROW gard? CVC loss and sels. These features and up to better patient care with cours user.

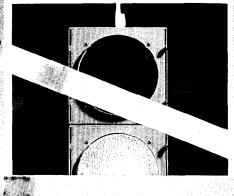
"The Arrow Blue Plex Epp" is an integral catheter tip which is more plant than the body. It remains potent year.

a patented valving system. It allows a spring-wire guide to be placed directly into the vessel lumen so there's less trauma, less contamination risk, and virtually no chance for air embolism.

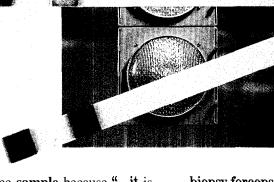
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¹Kleier, OJ and Averbach, RE Glutaraldehyde nonbiologic monitors *Infect Control Hosp Epidemiol* 11 (8):439-441 (1990)

²Kaczmarek, RG, Moore, RM, McCrohan, J, Goldmann, DA, Reynolds. C. Caquelin, C, and Israel, E. Multi-Slate Investigation of the Actual Disinfection/Sterilization of Endoscopes in Health Care Facilities. Am J Med 92:257-261 (311992)

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