

# DESIGNED TO INCREASE FIRST-STICK SUCCESS.

>>>

AN OVERVIEW OF BD AUTOGUARD™ TECHNOLOGIES

BD AUTOGUARD™ Shielded IV Catheters



Helping all people  
live healthy lives

# THE STANDARD IN IV THERAPY.

> > >

## BD Vialon™ Biomaterial is Clinically Proven to Optimize Patient Outcomes

BD Vialon biomaterial is a unique, proprietary biomaterial, developed especially for vascular access. Multiple clinical investigations conducted over ten years have proven that IV catheters made of BD Vialon biomaterial are easier to insert, while providing longer dwell times with improved patient outcomes.<sup>1,2,3,4</sup>

The insertion characteristics of BD Vialon biomaterial catheters are as unique as the material itself. Superior tip integrity, an ultra-smooth micro-surface and an exclusive lubrication process enable the easiest insertion possible, making BD Vialon biomaterial catheters easier to place and advance on a wider cross-section of patients.<sup>2</sup>

### Softens Inside the Vessel

Another distinctive characteristic of BD Vialon biomaterial is its ability to soften up to 70% while in the vessel.<sup>5</sup>

By conforming to the shape of the vein, catheters made of BD Vialon biomaterial reduce the chance of irritation to the vessel wall, which in turn reduces the incidence of mechanical phlebitis, a major complication of IV therapy.



### Optimum Kink Resistance

The BD Vialon biomaterial is markedly more flexible than other IV catheter materials.<sup>5</sup> According to one study, "Kinking was not found in any of the Vialon cannulae after removal."<sup>2</sup>

### Optimum Reduced Risk of Mechanical Phlebitis and IV Infiltration

Vialon catheters changed every 3 or 4 days produce a lower incidence of phlebitis than would other FEP catheters changed every 2 days.<sup>1</sup> The reduction in risk of phlebitis was nearly 30% overall; in severe phlebitis, the reduction was nearly 50%.<sup>1</sup> Vialon cannulae are associated with a 46% lower incidence and severity of infusion thrombophlebitis.<sup>2</sup>

## BD Instaflash™ Needle Technology Provides Immediate Confirmation of Vessel Entry

A successful first-stick is important for both you and your patient, especially when accessing small and compromised veins. BD sharp needles enable a smooth penetration through the skin and into the vessel.

BD Instaflash needle technology is designed to reduce hit-and-miss insertion by confirming vessel entry, enabling you to stay focused on the insertion site. Upon vessel entry, blood flows out of the notch between the needle and catheter, providing immediate visual confirmation of vessel entry.

BD Instaflash needle technology has been incorporated into our BD Autoguard 20-, 22- and 24-gauge shielded IV catheters, as well as our BD Introsyte-N™ 26-gauge shielded introducer for peripherally inserted central catheters.



1 Maki D, Ringer M. Risk Factors for Infusion-related Phlebitis with Small Peripheral Venous Catheters. *Annals of Internal Medicine*. 1991;114:845-854.

2 Gaukroger PB, Roberts JG, Manners TA. Infusion Thrombophlebitis: A Prospective Comparison of 645 Vialon® and Teflon® Canulae in Anesthetic and Postoperative Use. *Anesthesia and Intensive Care*. August 1988;16(3).

3 Stanley M, Meister E, Fuschuber K. Infiltration During Intravenous Therapy in Noenates: Comparison of Teflon® and Vialon® Catheters. *Southern Medical Journal*. September 1992;85(9):883-886.

4 McKee JM, Shell JA, Warren TA, Campbell VP. Complications of Intravenous Therapy: A Randomized Prospective Study--Vialon vs. Teflon. *Journal of Infusion Nursing*. September 1989;12:288-295.

5 Data on file.

6 Mendelson MH, Chen LB, Finkelstein LE, Bailey E, Kogan G, Mt Sinai Medical Center, New York, NY. Preliminary Evaluation of a Safety IV Catheter (Insyte Autoguard, Becton Dickinson) using the Centers for Disease Control and Prevention (CDC) National Surveillance System for Hospital Healthcare Workers Database. *Abstr. Centers for Disease Control and Prevention - 4th Decennial International Conference on Nosocomial and Healthcare-Associated Infections*. March 2000.



If I can get the first stick,  
everything else will follow.

## Reduces Needlestick Injuries

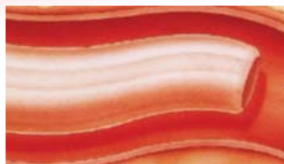
BD Autoguard shielded IV catheters mean added safety for you. The BD Autoguard push-button needle shielding technology was proven to effectively safeguard healthcare workers, with a 95% reduction in needlestick injuries.<sup>6</sup>

## Protection Is In Your Control

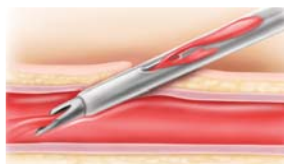
Push-button needle protection gives clinicians more flexibility with the catheter, providing control of when to activate the safety mechanism. According to a clinical study, this push-button needle shielding technology has significantly reduced needlestick injuries to healthcare workers.<sup>6</sup>



**BD Vialon™ Biomaterial**  
Conforms to the shape of the vessel.



**BD Instaflash™ Needle Technology**  
Designed to reduce hit-and-miss insertion.





BD IS THE WORLD'S LEADING MANUFACTURER OF IV ACCESS DEVICES AND WE KNOW THE IMPORTANCE TO BOTH CLINICIAN AND PATIENT OF THOUGHTFULLY DESIGNED, EFFECTIVE AND SAFE MEDICAL DEVICES. THE FAMILY OF BD AUTOGUARD SHIELDED IV CATHETERS PROVIDES YOU WITH PRODUCTS DESIGNED TO MAKE IV ACCESS SIMPLE, SAFE AND RELIABLE.

BD AUTOGUARD™ Shielded IV Catheters



**BD Medical**  
9450 South State Street  
Sandy, Utah 84070  
1.888.237.2762  
[www.bd.com/infusion](http://www.bd.com/infusion)