Introducing a systematic approach to prevention that helps to maximize protection. And savings.

Centurion Medical Products’ CVC Zone Bundle™ is a custom-built central line bundle with everything your team needs— in the desired sequence — to prevent infection, improve outcomes and offer the best patient care possible during and after central line insertion. At a time when it’s more vital than ever for hospitals to focus on reducing infection risk, Centurion’s Zone Defense™ approach can be a powerful ally in achieving compliance — and cost savings, too.
The cost of CLABSIs? Higher than meets the eye.

Hospitalization: harmful to your health? Hospital-acquired infections are the fourth largest killer in the United States,¹ and Central Line Associated Blood Stream Infections (CLABSIs) are responsible for a significant portion of the death toll.


The cost of CLABSIs is high:
• Treatment costs for CLABSIs are estimated at $30,919-$65,245 per patient.²
• The average length of additional hospital stay associated with CLABSIs is 26 days.³
• Mortality rates for patients with CLABSIs were 25.6% vs 2.4% for patients without a hospital-acquired infection.³
• Additional indirect costs include lost income for the patient and family members, diminished productivity, increased mortality, anxiety, grief, pain and suffering.⁴

• Per the "Deficit Reduction Act" of 2005, the Centers for Medicare & Medicaid Services (CMS) no longer reimburse hospitals for vascular catheter-associated infections acquired by patients while being treated in a health care facility.⁵

From every perspective — cost, public image, government policy and above all patient welfare — hospitals and medical facilities must actively pursue a prevention strategy that mitigates CLABSI risk factors and actively seeks to prevent infection.
Bundling: A central component of your prevention plan. Central Line Associated Blood Stream Infections (CLABSIs) are almost entirely preventable. Every major health agency including the CDC, OSHA and The Joint Commission asserts that a robust prevention strategy including proper techniques, protocols and bundling, significantly reduces CLABSIs. Research provides further compelling evidence that using a bundle strategy as a central component of an overall plan to reduce infections is an effective way for hospitals to combat central line-related infections.6

Key bundle components that aid CLABSI prevention:

- Hand hygiene
- Maximal barrier precautions upon insertion
- Chlorhexidine site asepsis
- Optimal catheter site selection
- Daily review of line necessity, with prompt removal of unnecessary lines
- A checklist to support standardized protocol

Based on guidelines and recommendations by The Society for Healthcare Epidemiology of America (SHEA), The Infectious Diseases Society of America (IDSA), The Association for Professionals in Infection Control and Epidemiology (APIC), and others. The Joint Commission’s Hospital Accreditation Program has published National Patient Safety Goals effective 1/1/2011.

Centurion’s CVC Zone Bundle: Helping implement best practices.

Centurion’s CVC Zone Bundle helps hospitals seamlessly integrate CLABSI prevention into the central line insertion procedure, reducing un-reimbursed treatment costs, curtailing potentially costly litigation and ultimately, saving lives.

The Joint Commission National Patient Safety Goals

Implement policies and practices aimed at reducing the risk of central line-associated bloodstream infections. These policies and practices meet regulatory requirements and are aligned with evidence-based standards (for example, the Centers for Disease Control and Prevention (CDC) and/or professional organization guidelines).

• Use a catheter checklist and a standardized protocol for central venous catheter insertion.
• Use a standardized supply cart or kit that contains all necessary components for the insertion of central venous catheters.
• Use a standardized protocol for sterile barrier precautions during central venous catheter insertion.
• Use an antiseptic for skin preparation during central venous catheter insertion that is cited in scientific literature or endorsed by professional organizations.
The defining difference in the CVC Zone Bundle, developed by quality-leader Centurion Medical Products, is our Zone Defense approach, which helps facilitate proper sterile technique in the placement of a central line. Each layer of the tray is designed to ensure compliance and reduce errors and inconsistencies in delivery of care.

Each Zone addresses a step in the central line insertion process and specific objectives that must be met to safeguard against infection.

**Zone 1:** The Maximum Barrier Zone protects the patient and clinician from cross-contamination.

**Zone 2:** The Catheter Insertion Zone streamlines the insertion process and anticipates the needs of the clinician during the procedure.

**Zone 3:** The Site Protection and Accessory Zone supports line securement and post-insertion compliance.

The Zone Defense approach creates a high level of consistency in central line insertion procedures, while allowing hospitals the opportunity to customize where appropriate. Centurion is able to custom-build CVC Zone Bundles with our superior components for hospitals’ specific protocols and preferences.
Centurion Medical Products is the leader in high-quality medical products and services that deliver better patient, caregiver, environmental and financial outcomes. We believe that using quality equipment customized to its intended medical use has a direct impact on patient well-being, clinician satisfaction and operational efficiency.

That is why we are dedicated to providing services beyond the initial sales interaction. Before the first conversation with a customer, we make sure our supply chain can quickly respond to our customers’ fluctuating demand for product. We have higher levels of inventory and shorter production times than our competition to ensure that we can respond quickly to kit changes. Our sales representative and access team will then work closely with you to understand your hospital’s needs to produce a CVC Zone Bundle based on your specific performance requirements. Then we provide clinical education programs that are designed to ensure that those performance requirements are being met.

From start to finish, we are highly driven by results. Our end goal is to design, manufacture and market products we would want doctors to use to treat ourselves and our families. There is no higher standard, and we will accept nothing less.

Centurion’s Exclusive Guardian Angel Program assists hospitals and clinicians with establishing best practices for reducing the incidence of CLABSIs. This exclusive education program is designed to uncover any gaps and reinforce essential skills and behaviors needed for central line insertion and maintenance.

BENCHMARK
The program begins with a survey of the leadership. Benchmarking will assist an organization in determining where improvement gains can be made.

EDUCATE
The organization will then be granted time-limited access to an Online Education Portal.

AUDIT
Each staff member who completes the online program will be audited to ensure compliance with the organizational objectives.

Patient centered, performance driven.
PROTECTIVE GEAR
• Full-body drapes
• Surgical gowns – non-reinforced, fabric reinforced and impervious – with multiple protection level options
• Gloves
• Caps and bouffants
• Face masks, with or without splash shields
• Additional sets of personal protection equipment may be included for support clinicians and other personnel present during procedure

HOSPITAL CHECKLISTS & EDUCATIONAL MATERIALS
• Customized procedural checklists
• Labels, signs and forms optionally built into trays to ensure proper protocol
• Patient and family education sheets

CHLORAPREP® applicators
• Available in 3ml and 10ml
• Available in tinted and non-tinted versions

ULTRASOUND GEL & PROBE COVERS
• Sterile ultrasound probes and gel to improve success rates and reduce complications during line placement

ZONE 1: MAXIMUM BARRIER
Clinician & Patient Prep

- Customized Drapes For Central Line Insertions
In addition to offering a large variety of stock drapes, Centurion can customize a drape for any procedure.
- Multiple materials and material combinations
- Sized to fit procedure
- Windows/incise areas
- Fenestrations, with or without adhesive borders or tear-away zones
- Perforations
- Absorbent zones
- Printed directions/information

- Absorbent/Light (White Laminate)
- SMS Adhesive

- Absorbent/Medium (Blue Laminate)

For the patient, applying maximal barrier precautions means covering the patient from head to toe with a sterile drape, with a small opening for the site of insertion. Some popular drapes for central line insertions are:

GLOVES
ULTRASOUND GEL
& PROBE COVERS

Protecting the Patient and the Clinical Team
Zone 1 equips the clinical team for the essential first steps in a central line insertion that provide maximal barrier protection for both the patient and clinicians. This Zone contains all relevant paperwork, a hospital checklist, protective gear (for inserter and assistant), drapes, and ultrasound gel and probes, helping to prevent cross contamination from outside the room and from clinicians to patient. Procedural checklists are customized to each facility’s exact protocol, ensuring consistency and accuracy.

- Absorbent/Light (White Laminate)
- SMS Adhesive

- Absorbent/Medium (Blue Laminate)

- Absorbent/Light (White Laminate)
- SMS Adhesive
Zone 2: Catheter Insertion

The inclusion of Edwards catheters in Centurion’s CVC Zone Bundle represents Centurion’s dedication to superior quality. The Vantex and Multi-Med catheters are pressure injectable and provide broad spectrum antimicrobial protection using a unique combination of silver, carbon, and platinum. The catheters are available in single, double, or quad lumen, along with 16 and 20 cm lengths.

VANTEX
- Features oligon technology, providing broad spectrum antimicrobial protection using a unique combination of silver, carbon, and platinum.
- The oligon technology is extruded into the body of the polyurethane Vantex catheter.
- Available in double, triple, or quad lumen, along with 16 and 20 cm lengths.
- Made with kink-resistant polyurethane.
- Pressure injectable.

MULTI-MED
- Designed for optimal flow from “hub to tip” – provides fast infusion of fluids.
- Made with kink-resistant polyurethane.
- Available in single, double, triple, or quad lumen, along with 16 and 20 cm lengths.
- Soft tips to enhance patient comfort and reduce risk of vessel perforation.
- Pressure injectable.

INTRAVASCULAR DILATOR/CATHETER INTRODUCTOR
- Features a locking contamination shield to prevent catheter migration.
- Two valve options for greater flexibility – automatic or adjustable (Tuohy Borst).
- Features a V-shaped sidearm for use as an additional central line, with three-way stopcock included.

ADVANCED VENOUS ACCESS SUTURELESS CATHETER
- Connects to a standard 18 gauge venous access catheter or small bore central lines.
- Can be inserted through any access device and is compatible with any other CVC technology.
- Designed for aseptic insertion: interchangeable, dual valve designs and needleless valve systems for aseptic conditions.

Streamlining the Insertion Process
Zone 2 is the CVC Zone Bundle provides the clinician with every component needed for catheter insertion. This Zone features Edwards Lifesciences pressure injectable, antimicrobial catheters and pre-filled, sterile field-ready saline syringes placed inside the kit in the proper location. The equipment and sequencing in this tray anticipates the needs of the inserter, which reduces the need to break the sterile field to find supplies, thereby optimizing the entire insertion process.
Centurion SorbaView® SHIELD Securement Dressings

SorbaView® SHIELD offers the safety of a SorbaView dressing with the added benefit of the most secure integrated catheter stabilization device on the market: Centurion SHIELD Technology™. The dressing offers a breathable barrier against bacteria, viruses and other contaminants while the built-in securement withstands multi-directional tugging forces to hold the catheter securely in place.

- One-step dressing and catheter securement system eliminates the need for a secondary securement device
- Prevents catheter movement and dislodgement
- Keeps catheters securely in place
- Easy to apply – won’t stick to itself during application
- Provides a proven barrier against bacteria and contaminants, lowering the risk of Central Line Bloodstream infections (CLABSIs)
- Meets 7-day wear times for central lines, which means fewer dressing changes and less nursing time
- Dramatically reduces the risk of complications
- Latex-free, non-sensitizing adhesive makes SHIELD comfortable for patients to wear
- Many sizes available with an adhesive-free zone in the window for use with Biopatch

STERILE LABELS

- Labels may be customized to fit each facility’s procedural protocols to enable compliance with the Joint Commission medication labeling requirements

SNAGFREE NEEDLE HOLDER

- Patented design that prevents sutures from snagging on the instrument
- Precision-made; reusable quality
- High-quality scissors and forceps are also available

CENTURION CVC SECUREMENT ANCHOR

- An adhesive-based securement device to decrease the risk of Vantex or Multimed catheter movement or dislodgement

Tubing Anchor

A large selection is available to build your bundle to fit your needs, including our exclusive nesting trays

PACKAGE OPTIONS

- Available in lidded containers or breather bags
- Packages are color coded by catheter type

Many other dressings available; ask your sales representative for details.
IHI Recommendations

“Application of the central line bundle has demonstrated striking reductions in the rate of central line infections in many hospitals....

A key change to decrease the likelihood of central line infections is to apply maximal barrier precautions in preparation for line insertion.

For the operator placing the central line and for those assisting in the procedure, maximal barrier precautions means strict compliance with hand hygiene and wearing a cap, mask, sterile gown, and sterile gloves. The cap should cover all hair and the mask should cover the nose and mouth tightly. These precautions are the same as for any other surgical procedure that carries a risk of infection.

For the patient, applying maximal barrier precautions means covering the patient from head to toe with a sterile drape, with a small opening for the site of insertion.”

- Institute for Healthcare Improvement, 5 Million Lives Campaign, “Prevent Central Line Infections: How-to Guide”

CDC Guidelines

“Use maximal sterile barrier precautions, including the use of a cap, mask, sterile gown, sterile gloves, and a sterile full body drape, for the insertion of CVCs, PICCs, or guidewire exchange...

Use hospital-specific or collaborative-based performance improvement initiatives in which multifaceted strategies are “bundled” together to improve compliance with evidence-based recommended practices.”


The Joint Commission
National Patient Safety Goals

“Label all medications, medication containers, and other solutions on and off the sterile field in perioperative and other procedural settings.”