

CLABSI

is a serious threat

Every I.V. catheter presents potential for central line-associated bloodstream infections (CLABSI).



1 in 4 patients
who contract CLABSI die.1

Even when not fatal, CLABSIs can progress to other serious conditions, which can lead to extended hospital stays.²

71,900

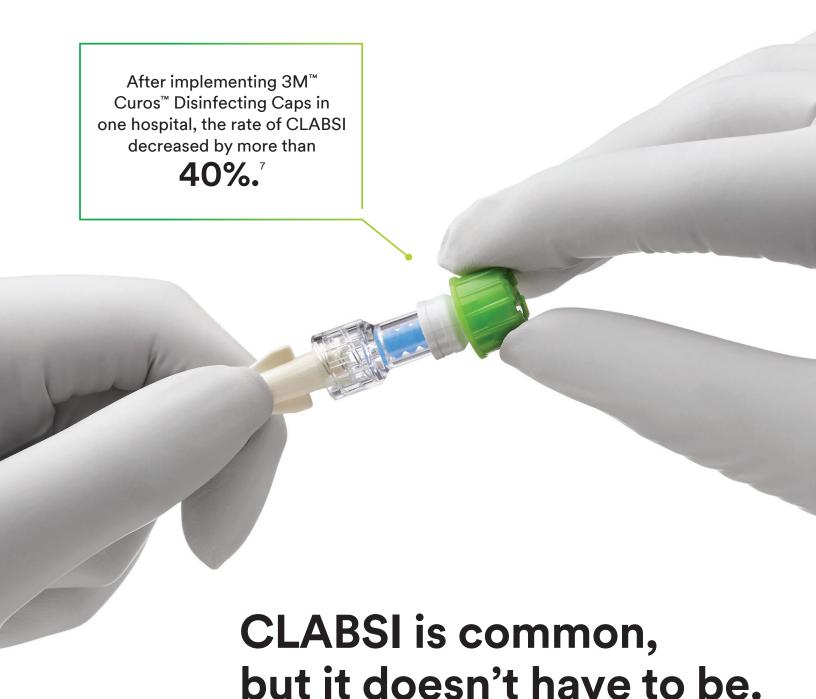
preventable U.S. central line infections annually.3

^{1.} www.vdh.virginia.gov/epidemiology/surveillance/hai/documents/pdf/CDC_VitalSignsReportMarch2011.pdf.

^{2.} Maki, D.G.; Kluger, D.M.; Crnich, C.J. The risk of bloodstream infection in adults with different intravascular devices: a systematic review of 200 published prospective studies. Mayo Clin. Proc. 2006; 81 (9): 1159–1171.

^{3.} Mermel, L.A. Prevention of Intravascular Catheter-Related Infections. Ann. Intern. Med. 2000; 132: 391-402.





Consistent use of Curos™ Disinfecting Caps on ports is associated with decreased CLABSI. Curos disinfecting caps are alcohol-impregnated caps that twist onto ports for disinfection and protection. They disinfect prior to line access and act as a physical barrier to contamination between accesses.

Each Curos disinfecting cap contains 70% isopropyl alcohol (IPA). The IPA bathes the surface of the port and disinfects it in 1 minute.

3M[™] Curos[™] Disinfecting Caps achieved a 99.99% reduction in 6 microbes commonly associated with CLABSI.^{8,9}

The effectiveness of Curos products was tested *in vitro* against⁹



Staphylococcus aureus



Escherichia



Pseudomonas aeruginosa



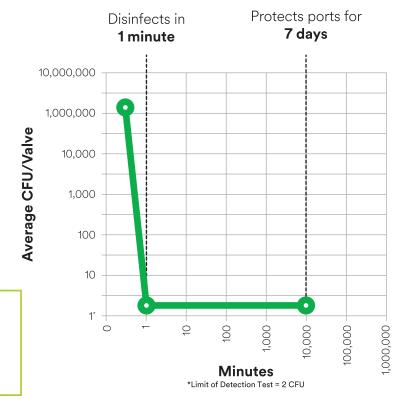
Staphylococcus epidermidis



Candida



Candido



STUDY CONCLUSION:

All test samples exceeded the minimum 4-log reduction after one minute.

Studies were conducted at independent laboratories.

3M data on file.

?

How do Curos disinfecting caps compare with the "scrub the hub" method?

For more than a decade, the standard of care in port disinfection has been a thorough 15-30 second (plus drying time) manual scrub of the port with an alcohol pad, often referred to as scrubbing the hub. Curos disinfecting caps provide several advantages over the scrub the hub protocol.

A U.S. hospital observational study showed less than 10% compliance with the disinfection protocol for catheter hubs.¹⁰



Save time

Curos alcohol-impregnated caps provide fast passive disinfection, saving nurses valuable time compared to most scrub the hub protocols. In addition, no drying time is required to achieve disinfection.



Provide a physical barrier

They provide a physical barrier to contamination between accesses, for up to 7 days.



Remove user technique variation

They remove the user technique variation found in manual scrubbing the hub procedure.



Provide visual compliance confirmation

Their bright colour also provides quick visual confirmation that a port is clean, giving nurses peace of mind and empowering facilities to audit and improve disinfection compliance.

^{8.} For more information regarding organisms associated with central line-associated bloodstream infections, refer to Sievert, D.M.; Ricks, P.; Edwards, J.R.; Schneider, A.; Patel, J.; Srinivasan, A.; . . . Fridkin, S. (2013). Antimicrobial-Resistant Pathogens Associated with Healthcare-Associated Infections: Summary of Data Reported to the National Healthcare Safety Network at the Centers for Disease Control and Prevention, 2009-2010. Infection Control & Hospital Epidemiology, 34 (01), 1-14. doi: 10.1086/668770.

^{9.} Data reflects in vitro findings on Curos™ Disinfecting Port Protectors.

^{10.} J. Lee. "Disinfection cap makes critical difference in central line bundle for reducing CLABSIs," in Proceedings of the APIC Annual Conference, vol. 39, p. E64, Fort Lauderdale, Fla, USA, 2013.

All patients, all access points, all the time.

Use the entire family of 3M™ Curos™ Disinfecting Caps products to help reduce risks across intraluminal access points.

According to the 2016 Infusion
Nurses Society Standards
of Practice, "Use of passive
disinfecting caps containing
disinfecting agent (IPA) have been
shown to reduce intraluminal
microbial contamination and
reduce rates of CLABSIs."
(Level II)¹¹



curos

curos



3M™ Curos™ Disinfecting Cap for Needleless Connectors



3M™ Curos Tips™ Disinfecting Cap for Male Luers



3M[™] Curos[™] Disinfecting Cap for Tego® Hemodialysis



3M™ Curos™ Stopper Disinfecting Cap for Open Female Luers

Where you need them, when you need them.

Curos brand products can be dispensed as individual caps or on strips. Strips of Curos brand products can be hung from I.V. poles for easy access, greater compliance and reduced waste.

Powerful 1-minute disinfection

Curos disinfecting caps contain 70% isopropyl alcohol (IPA). The IPA disinfects the surface of the port in 1 minute. They're proven effective disinfecting against *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Candida glabrata* and *Candida albicans*.

Protects for up to 7 days

Curos disinfecting caps can also be left in place to keep ports clean and protected for up to 7 days. Passive disinfection removes human technique variance, providing consistent disinfection every time.

Coloured bright to disinfect right

Brightly coloured Curos brand products verify that a port is clean at a glance and disinfection compliance can be easily and reliably measured.

Protection that stays put

Curos disinfecting caps twist on easily and stay securely in place on commonly used ports – meeting INS Standards for add-on devices.

Strips are consistent with the INS Standards:

"Ensure disinfecting supplies are readily available at bedside to facilitate staff compliance with port disinfection."



Peer-Reviewed Articles

Clinical studies back us up

According to the 2016 Infusion Therapy Standards of Practice, "Use of passive disinfecting caps containing disinfecting agent (IPA) have been shown to reduce intraluminal microbial contamination and reduce rates of CLABSIs." (Level II)"

Several hospitals have implemented the use of 3M[™] Curos[™] Disinfecting Caps and achieved impressive results.

10% increase in nurse compliance resulted in a statistically significant

7% decrease in infection rates.

Implementation of Curos Strips during the trial increased compliance rates from

63% to 80%.

American Journal of Infection Control: Volume 40, Number 12; December 2014

Impact of Universal Disinfectant Cap Implementation on Central Line-Associated Bloodstream Infections

Katreena Collette Merrill, RN, PhD; Sharon Sumner, RN, BS; Lorraine Linford, RN, BS, CNSC; Carrie Taylor, RN, MS, CIC; Christopher Macintosh, RN, BS.

- The rate of CLABSI infections decreased by >40% following implementation of the Curos™
 Disinfecting Strip for Needleless Connectors (IRR = .557, P = .004).
- Curos Cap use was associated with an estimated savings of almost \$300,000 per year in the hospital studied.
- Weekly audits of compliance demonstrated that a 10% increase in nurse compliance resulted in a statistically significant 7% drop in infection rate.

The Journal of the Association for Vascular Access: Volume 17, Number 4; December 2012

Central Venous Catheter Protective Connector Caps Reduce Intraluminal Catheter-Related Infection

Chuck Ramirez, BA, RRT, VA-BC; Antonina M. Lee, MEd, MPH, RN, CIC; Ken Welch, MD; Banner Estrella Medical Center, Phoenix, AZ

- During 2010, the CLABSI rate reduced from 1.9 in 2010 to 0.5 during the one-year trial period.
- The implementation of Curos[™] Disinfecting Strip for Connectors during month five of the trial increased compliance rates from 63% to 80%.

American Journal of Critical Care, Volume 25, Number 2: 165-172, March 2016

This infection reduction could translate to an annual savings of approximately

\$3.7 million.

32-bed study showed annual savings of

\$500,000.

Curos caps were estimated to provide a potential clinical time savings of

82.4 working days per year.

Use of a Central Catheter Maintenance Bundle in Long-term Care Hospitals

Anthony M. Grigonis, PhD; Amanda M. Dawson, PhD; Mary Burkett, DNP, CNS; Arthur Dylag, MA, MBA; Matthew Sears, BS; Betty Helber, RN, MS, ANE-BC and Lisa K. Snyder, MN, MPH

- A central catheter maintenance bundle was implemented in 30 long-term acute care hospitals (LTACHs), and compliance with the bundle was tracked for six months. CLABSI rates were monitored for 14 months before and 14 months after the bundle was implemented.
- In addition to the CDC guidelines, the bundle protocol included education on the protocol, mandatory
 use of alcohol-based central catheter caps, chlorhexidine gluconate dressings, and formation of a
 central catheter team of nurses
- A mean reduction of 4.5 CLABSIs per LTACH occurred for the LTACHs studied for 14 months after
 the bundle was implemented. This infection reduction could translate to a savings of approximately
 \$3.7 million annually for the 30 LTACHs studied and could have potentially saved 20 patients' lives,
 assuming a 15% mortality rate from CLABSIs.

American Journal of Infection Control: Volume 40, Number 10; December 2012

Impact of Alcohol Impregnated Port Protectors and Needleless Neutral Pressure Connectors on Central Line-Associated Bloodstream Infections and Contamination of Blood Cultures in an Inpatient Oncology Unit

Michael A. Sweet, PharmD; Aaron Cumpston, PharmD; Frank Briggs, PharmD, MPH; Michael Craig, MD and Mehdi Hamadani, MD

- A total of 6,851 central line-days and 16 CLABSIs (2.3 infections/1,000 central line days) were
 documented during the control period, compared with 3,005 central line days and one CLABSI (a
 rate of 0.3 infections/1,000 central line days) during the intervention period (relative risk, 0.14; 95%
 confidence interval [CI], 0.02-1.07; P = .03).
- This 32-bed study showed \$500,000 in annualized savings (Sweet MA, et al. SHEA Product Evaluation 2011).
- The rate of contaminated blood cultures from central lines was 2.5% (17 of 692) during the control period, but only 0.2% (1 of 470) during the intervention period (relative risk, 0.09; 95% CI, 0.01-0.65; P = .002).
- The rate of adherence to the intervention was 85.2% (228 of 269 patients with catheter protectors).

British Journal of Nursing: (I.V. Therapy Supplement) Volume 25, Number 8, 2016

Port Protectors in Clinical Practice: an Audit

Corinne Cameron-Watson. Barking Havering and RedBridge NHS Trust

- The study measured the effect on compliance and incidence of vascular access device (VAD)-related bacteremia following the introduction of a passive disinfection device (Curos) for 6 months.
- As compared to data collected in a benchmark "scrub the hub" audit, data post Curos cap implementation showed VAD-related bacteremia rates reduced by 69% when staff compliance with Curos cap placement onto VADs was 80% or more.
- The use of Curos caps was estimated to provide a potential clinical-time saving of 659.4 hours per year, which equates to 82.4 working days per year (based on an 8-hour day).
- Of the 86 staff trained to use a port protector, 70% returned completed questionnaire, and of these 100% preferred the port protectors to manual scrubbing.

The entire family of 3M™ Curos™ Disinfecting Caps

Disinfects in 1 minute

Protects ports for up to 7 days

Twists on, stays on

Brightly coloured for visual verification and auditing

Single use only





3M[™] Curos[™] Disinfecting Cap for Needleless Connectors

Disinfects

Disinfects needleless connectors in 1 minute.

Protects

Acts as a barrier to contamination while in place.

Where you need them, when you need them

Strips of Curos brand products can be hung from I.V. poles for easy access, greater compliance and reduced waste.

Dispensing options

- Individual caps
- Strips (10 count)









Thoughtful design

Curos stopper disinfecting caps are designed to Luer lock onto a wide range of stopcocks and catheter hubs. They utilize 70% IPA to disinfect the critical surfaces of open female Luers, prior to line access.

The unique cap design will hold pressure to maintain a closed system.

Dispensing options

- Individual caps
- Strips (5 count)





3M[™] Curos[™]

Disinfecting Cap for Tego® Hemodialysis Connectors

Compatible

This specially designed Curos disinfecting cap has been tested to fit and maintain the integrity of the Tego® Hemodialysis Connector.

*ICU Medical. "Tego Swab Recommendations and Compatibility with Disinfecting Caps," October, 2012.

Custom coloured

White Curos caps for Tego® hemodialysis connectors are easily distinguished from green caps for dedicated use on the Tego connectors.

Dispensing options

Individual caps





3M[™] Curos Tips[™] Disinfecting Cap for Male Luers

Protection where it's needed

Curos Tips disinfecting caps contain 70% IPA within their inner cavity to disinfect and protect the distal end of I.V. tubing and other male Luer devices.

Optimal alcohol placement

A unique design shields excess alcohol from entering while providing sufficient flow of alcohol precisely where it is needed – on the exposed exterior male Luer.

Dispensing options

• Strips (5 count)



To order call **1-800-563-2921**

Product	Dispenser	3M Product Order #	Boxes per Case	Units per Box	Total Caps or Tips per Case
3M™ Curos™ Disinfecting Caps for Needleless Connectors	Individuals	CFF1-270R	10	270	2,700
	Strips (10 count)	CFF10-250R	10	25 Strips	2,500
3M™ Curos Tips™ Disinfecting Caps for Male Luers	Strips (5 count)	CM5-200R	10	40 Strips	2,000
3M™ Curos™ Disinfecting Caps for Tego® Hemodialysis Connectors	Individuals	CTG1-270R	8	270	2,160
3M™ Curos™ Stopper Disinfecting Caps for Open Female Luers	Individuals	CSA1-270R	8	270	2,160
	Strips (5 count)	CSA5-250R	8	50 Strips	2,000



Proven protection that's easy to see.

To learn more about how 3M can help you and your facility protect clinician and patient safety, prevent costly I.V. site complications, and improve patient satisfaction, contact your 3M Critical & Chronic Care Solutions representative or call the 3M Health Care Customer Helpline at 1-800-563-2921. For more information, go to 3M.ca/Curos.



Available in Canada from:

3M Critical & Chronic Care Solutions Division 3M Canada P.O. Box 5757 London, Ontario N6A 4T1 Canada 1-800-563-2921 www.3M.ca/Curos 3M Health Care 2510 Conway Avenue St. Paul, MN 55144 USA 1-800-228-3957 www.3M.com/C3SD

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