# BARD Temperature-Sensing Management Systems

## At the Core of Optimal Patient Outcomes

**Infection prevention begins with accurate monitoring. And accurate monitoring begins with Bard.**

# BARD Temperature-Sensing Management Systems

## Maintaining **normal core body temperature** is important

*Heat loss may lead to impaired immunity and vasoconstriction, which lower resistance to infection.[3]*

*CDC's campaign to prevent antimicrobial resistance in surgical patients delineates steps to prevent surgical site infections. "Maintain Normothermia" is in Step 1.[4]*

## Because even a **1.5° C loss** can compromise patient outcomes

The implications of hypothermia include increased risk of:

- **Surgical site infection[1]**
- Morbid cardiac events[1]
- Ventricular tachycardia[1]
- Wound infection and blood loss[1]

Maintaining intraoperative normothermia may result in fewer adverse outcomes with a resulting decrease in costs.[1]

As little as a
**1.5° C loss**
in body temperature can lead to adverse outcomes, including surgical site infection[1]

37°C
Normal
34-36°C
Hypothermia
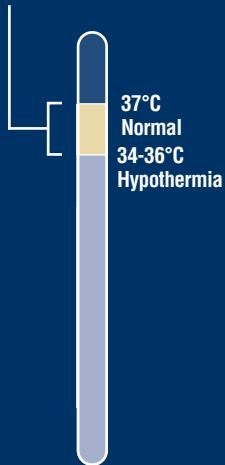
**Mild hypothermia (<36°C) is associated with adverse outcomes after CABG procedures.[2]**

**Core temperature monitoring can be incorporated into sepsis protocols to maximize early detection and help optimize outcomes.**

### The Impact of Surgical Site Infections is Significant

**Surgical site infections comprise 14% to 16% of all nosocomial infections among hospitalized patients[3]**

Surgical site infections
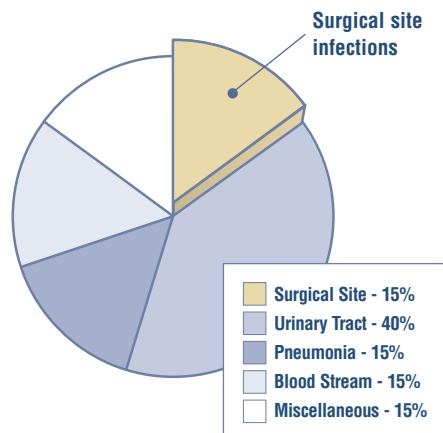
- Surgical Site - 15%
- Urinary Tract - 40%
- Pneumonia - 15%
- Blood Stream - 15%
- Miscellaneous - 15%

# At the Core of Infection

## Monitoring core body temperature accurately through the bladder may help prevent hypothermia

### Accurate

For accurate core body temperature, bladder measurement correlates most closely with pulmonary artery temperature.[5]

### Less Invasive

When Foley catheterization is indicated, it's the measurement of choice for ease of use.[5]

### Safe

Maintains a closed system and eliminates invasive probes to maximize patient safety.

### Convenient

Allows for convenient and continuous temperature monitoring to help maintain normothermia.

## Bladder temperature correlates best with pulmonary artery temperature for accurate monitoring[5]



Temperature C° vs. Minutes of Active Extracorporal Rewarming

Legend:
- Pulmonary Artery
- Urinary Bladder
- Esophageal
- Rectal
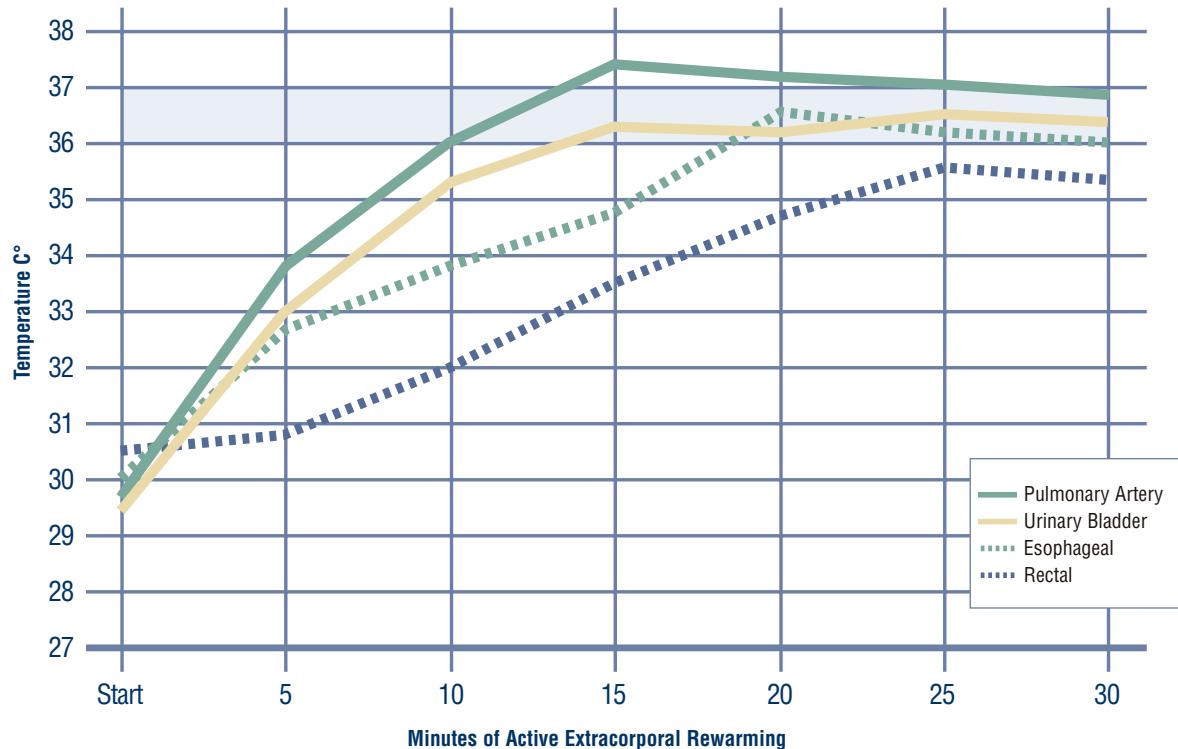
# Prevention

## Limit the risk of infection with Bard Temperature-Sensing Management Systems

### Bard® Complete Care™ Infection Control Temperature-Sensing Foley Trays and Catheters
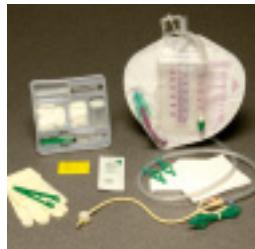


Provide infection control at the critical points where contamination is most likely to occur. Includes Foley catheters with **Bacti-Guard®\* Silver Alloy Coating** and **Bard® Hydrogel** for infection control that has been clinically proven in over 30 studies[6,7,8]

### Proprietary Catheter Coating Formulation Offers Infection Control with Superior Performance Built In

#### Bard® Hydrogel Coating

- Protects delicate urethral tissue
- Facilitates optimal sustained release of silver ions that minimize microbial adherence

#### Bacti-Guard®\* Silver Alloy Coating

- Anti-infective properties
- Chemically anchored to catheter surface for longevity

#### Bard® Foley Catheter Substrate

- Latex and latex-free catheters that set the standard for quality
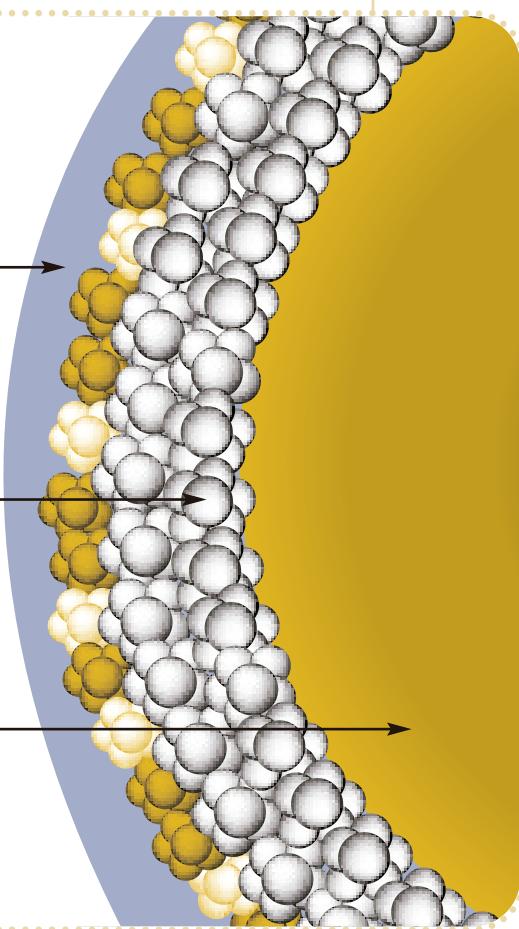
# At the Core of Optimal Patient Outcomes

**Temperature-Sensing Management Systems provide continuous, accurate, and safe core body temperature measurement to help limit the risk of infection caused by even mild hypothermia**

## Patient Monitoring



**CritiCore® monitor system electronically measures core body temperature and fluid output**—vital for maintaining normothermia and assessing urine output.

- Provides accurate and continuous patient trending data
- Closed system minimizes clinician contact with body fluids and reduces patient risk of infection
- Disposable infection control trays offer optimal convenience

## Temperature-Sensing Catheters and Trays
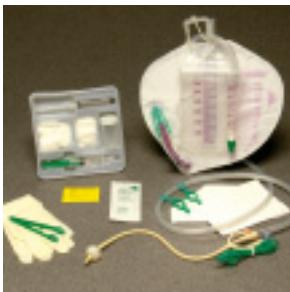


Foley catheters and trays to accurately measure core body temperature in the bladder.

- A full line, including infection control Foley Catheters with **Bacti-Guard®\* Silver Alloy Coating** and **Bard® Hydrogel**
- Latex and latex-free
- Available with 3.5 mm or Dual Connector

## Full Range of Accessories for Easy Connections



Connectors and cables that offer optimal versatility.

- Compatible with patient monitors found in most hospital settings
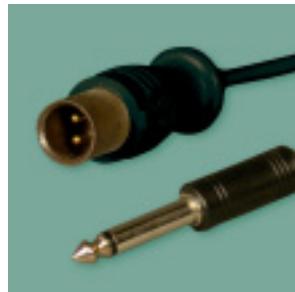
**Monitor Connectors**    **Catheter Connectors**

# The highest quality products, backed by the most comprehensive services

- **Toll-free Helpline** for immediate information about any Bard product or division. Call 800-FOR-BARD.

- Access to **Medical Services and Support** (MSS) for technical and clinical information as well as literature surveys. Call 800-227-3357.

- **In-service** visits for new and ongoing training of staff.

- **Educational materials** for information on products and technologies, as well as proper techniques.

- **Clinical articles** to help keep you aware of the latest research.

### References

1. Mahoney C, Odem J. Maintaining intraoperative normothermia: A meta-analysis of outcomes with costs. *AANA Journal.* 1999;67(2):155-164.
2. Insler SR, O'Connor MS, Leventhal MJ et al. Association between postoperative hypothermia and adverse outcome after coronary artery bypass surgery. *Ann Thorac Surg.* 2000;70(1):175-81.
3. Brooks T. Temperature management in the intraoperative setting. *Infect Control Today.* 2003.
4. CDC Campaign to Prevent Antimicrobial Resistance in Healthcare Settings: 12 Steps to Prevent Antimicrobial Resistance Among Surgical Patients. Available at: http://www.cdc.gov/drugresistance/healthcare/surgery/12steps_surgery.htm. Accessed December 2, 2004.
5. Lilly JK, Boland JP, Zekan S. Urinary bladder temperature monitoring: a new index of body core temperature. *Crit Care Med.* 1980;8(12):742-4.
6. Maki DG, Tambyah PA. Engineering out the risk of infection with urinary catheters. *Emer Infect Dis.* 2001;7:342-347.
7. Karchmer TB, Giannetta ET, Muto CA, Strain BA, Farr BM. A randomized crossover study of silver-coated urinary catheters in hospitalized patients. *Arch Int Med.* 2000;160:3294-3298.
8. Saint S, Veenstra DL, Sullivan SD, Chenoweth C, Fendrick AM. The potential clinical and economic benefits of silver alloy urinary catheters in preventing urinary tract infection. *Arch Int Med.* 2000;160:2670-2675.

**www.bardmedical.com**

# BARD

# BARD Temperature-Sensing Management Systems

## At the Core of Optimal Patient Outcomes

## Product List

| PRODUCT CODE | DESCRIPTION | SIZE | CASE QUANTITY |
|---|---|---|---|
| **Temperature-Sensing Urine Meter Foley Trays** | | | |
| 919116A | Bardex® I.C. Complete Care™ Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| 919118A | Bardex® I.C. Complete Care™ Temperature-Sensing Urine Meter Foley Tray | 18 FR | 10/case |
| 919116AM | Bardex® I.C. Complete Care™ Dual Connector Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| 919118AM | Bardex® I.C. Complete Care™ Dual Connector Temperature-Sensing Urine Meter Foley Tray | 18 FR | 10/case |
| 919116 | Bardex® I.C. Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| 919118 | Bardex® I.C. Temperature-Sensing Urine Meter Foley Tray | 18 FR | 10/case |
| 919216A | Lubri-Sil® I.C. Complete Care™ Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| 919218A | Lubri-Sil® I.C. Complete Care™ Temperature-Sensing Urine Meter Foley Tray | 18 FR | 10/case |
| 919216AM | Lubri-Sil® I.C. Complete Care™ Dual Connector Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| 919214 | Lubri-Sil® I.C. Temperature-Sensing Urine Meter Foley Tray | 14 FR | 10/case |
| 919216 | Lubri-Sil® I.C. Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| 919218 | Lubri-Sil® I.C. Temperature-Sensing Urine Meter Foley Tray | 18 FR | 10/case |
| 909116 | Bardex® Lubricath® Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| 909118 | Bardex® Lubricath® Temperature-Sensing Urine Meter Foley Tray | 18 FR | 10/case |
| 909116M | Bardex® Lubricath® Dual Connector Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| 909118M | Bardex® Lubricath® Dual Connector Temperature-Sensing Urine Meter Foley Tray | 18 FR | 10/case |
| 909416 | Latex-Free Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| 909418 | Latex-Free Temperature-Sensing Urine Meter Foley Tray | 18 FR | 10/case |
| 909516M | Latex-Free Lubri-Sil® Dual Connector Temperature-Sensing Urine Meter Foley Tray | 16 FR | 10/case |
| **Temperature-Sensing Latex Foley Catheters** | | | |
| 129416 | Bardex® I.C. Temperature-Sensing Foley Catheter | 16 FR | 12/case |
| 129418 | Bardex® I.C. Temperature-Sensing Foley Catheter | 18 FR | 12/case |
| 129416M | Bardex® I.C. Dual Connector Temperature-Sensing Foley | 16 FR | 12/case |
| 129418M | Bardex® I.C. Dual Connector Temperature-Sensing Foley | 18 FR | 12/case |
| 117416 | Bardex® Lubricath® Coude-Tip Temperature-Sensing Foley Catheter | 16 FR | 6/case |
| 119416 | Bardex® Lubricath® Temperature-Sensing Foley Catheter | 16 FR | 12/case |
| 119418 | Bardex® Lubricath® Temperature-Sensing Foley Catheter | 18 FR | 12/case |
| 119416M | Bardex® Lubricath® Dual Connector Temperature-Sensing Foley | 16 FR | 12/case |
| 119418M | Bardex® Lubricath® Dual Connector Temperature-Sensing Foley | 18 FR | 12/case |

**Toll-free Helpline** for immediate information about any Bard product or division. Call 800-FOR-BARD.
All Bard® Temperature-Sensing Foley Catheters are 400 Series.

## Product List (Continued)

| PRODUCT CODE | DESCRIPTION | SIZE | CASE QUANTITY |
|---|---|---|---|
| **Temperature-Sensing Silicone Foley Catheters** | | | |
| 119314 | Lubri-Sil® I.C. Temperature-Sensing Foley Catheter | 14 FR | 12/case |
| 119316 | Lubri-Sil® I.C. Temperature-Sensing Foley Catheter | 16 FR | 12/case |
| 119318 | Lubri-Sil® I.C. Temperature-Sensing Foley Catheter | 18 FR | 12/case |
| 119316M | Lubri-Sil® I.C. Dual Connector Temperature-Sensing Foley Catheter | 16 FR | 12/case |
| 119318M | Lubri-Sil® I.C. Dual Connector Temperature-Sensing Foley Catheter | 18 FR | 12/case |
| 119216M | Lubri-Sil® Dual Connector Temperature-Sensing Foley Catheter | 16 FR | 12/case |
| 119218M | Lubri-Sil® Dual Connector Temperature-Sensing Foley Catheter | 18 FR | 12/case |
| 119108 | Bardex® All-Silicone Temperature-Sensing Foley Catheter | 8 FR, 3cc | 6/case |
| 119110 | Bardex® All-Silicone Temperature-Sensing Foley Catheter | 10 FR, 3cc | 6/case |
| 119112 | Bardex® All-Silicone Temperature-Sensing Foley Catheter | 12 FR, 5cc | 6/case |
| 119114 | All-Silicone Temperature-Sensing Foley Catheter | 14 FR | 12/case |
| 119116 | All-Silicone Temperature-Sensing Foley Catheter | 16 FR | 12/case |
| 119118 | All-Silicone Temperature-Sensing Foley Catheter | 18 FR | 12/case |
| **CritiCore® System Disposable Foley Trays** | | | |
| 901216A | Bardex® I.C. Complete Care™ CritiCore® Foley Tray | 16 FR | 10/case |
| 901218A | Bardex® I.C. Complete Care™ CritiCore® Foley Tray | 18 FR | 10/case |
| 901216 | Bardex® I.C. CritiCore® Foley Tray | 16 FR | 10/case |
| 901218 | Bardex® I.C. CritiCore® Foley Tray | 18 FR | 10/case |
| 900916A | Lubri-Sil® I.C. Complete Care™ CritiCore® Foley Tray | 16 FR | 10/case |
| 900918A | Lubri-Sil® I.C. Complete Care™ CritiCore® Foley Tray | 18 FR | 10/case |
| 900916 | Lubri-Sil® I.C. CritiCore® Foley Tray | 16 FR | 10/case |
| 900918 | Lubri-Sil® I.C. CritiCore® Foley Tray | 18 FR | 10/case |
| 900216 | Bard® CritiCore® Foley Tray | 16 FR | 10/case |
| 900218 | Bard® CritiCore® Foley Tray | 18 FR | 10/case |
| 153200 | Bard® CritiCore® Collection Container | n/a | 10/case |
| 900316 | Bard® CritiCore® Surgipak® System | 16 FR | 10/case |
| 900318 | Bard® CritiCore® Surgipak® System | 18 FR | 10/case |
| 900416 | Coude CritiCore® Foley Tray | 16 FR | 10/case |
| 900714 | Latex-Free CritiCore® Foley Tray | 14 FR | 10/case |
| 900716 | Latex-Free CritiCore® Foley Tray | 16 FR | 10/case |
| 900718 | Latex-Free CritiCore® Foley Tray | 18 FR | 10/case |
| **Bard® CritiCore® Monitor** | | | |
| 000002N | CritiCore® Monitor | | |
| 000002NCM | CritiCore® Monitor with Communications Module | | |
| CCP06000 | CritiCore® Monitor Operators Manual | | |
| CCP06100 | CritiCore® Monitor Service Manual | | |
| 000002FS | CritiCore® Monitor Faceplate/Face Shield | | |
| **Patient Monitoring Accessories** | | | |
| EXTENSION CABLES | | | |
| 153621 | 3.5 mm Monoplug to 3.5mm Connector, 12 feet long | | |
| 153622 | 1/4" Monoplug to 3.5mm Connector, 12 feet long | | |
| 153623M | 1/4" Monoplug to Dual Connector, 12 feet long | | |
| 153624HM | Two Pin Round Plug to Dual Connector, 12 feet long | | |
| 153625H | Two Pin Round Plug to 3.5mm Connector, 12 feet long | | |

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