

Bactiguard Infection Protection

"Improving quality of care at Hospital"

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Antimicrobial Resistance (AMR)

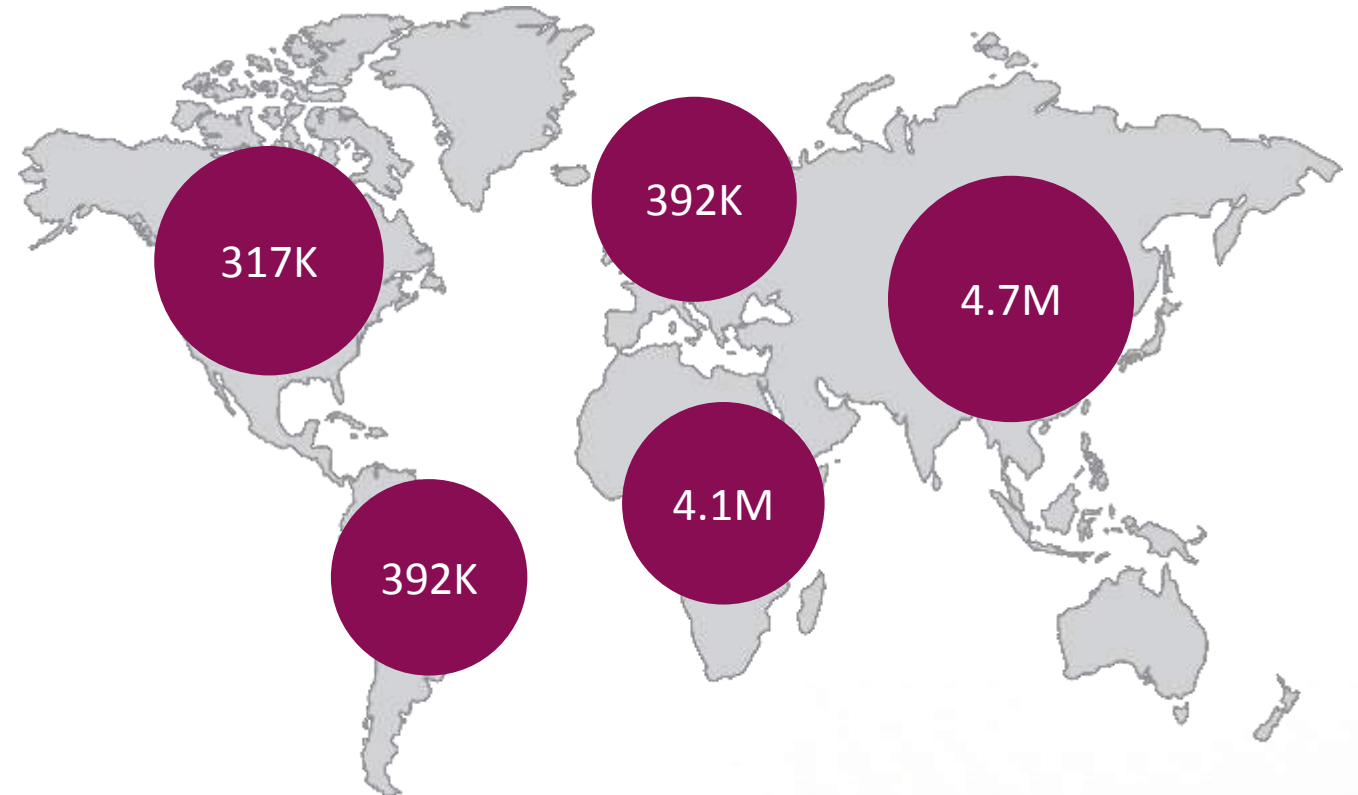
European and Global Challenge by 2050



EU: 25 000 patients die annually

Globally: Could be as high as 700 000

2050 => 10 million lives at risk globally



Health care-associated infections

HAI frequency



1 in every 10 patients affected by health care-associated infections worldwide



Status in India

Healthcare associated infections

- India is the single largest antibiotics-consuming country in the world
- At least 2 million patients affected by Hospital Acquired Infections every year
- ¼ of infections occur in the ICUs
- At least 58,000 babies die each year from superbugs
- 60% to 80% of organisms that cause infections in newborns are resistant to normal antibiotics.



Leading causes of death (Western world)	
Rank	Cause of death
1	Cardiovascular diseases incl. stroke
2	Cancer
3	Healthcare Associated Infections

The challenge

According to the World Health Organization (WHO):

- Preventing healthcare associated infections (HAIs) has never been more important
- Every infection prevented is an antibiotic treatment avoided

“Infection prevention and control actions can save millions of lives, every year”

World Health Organization



PREVENT INFECTIONS SAVE LIVES IN HEALTH CARE HANDLE ANTIBIOTICS WITH CARE

WHAT'S THE PROBLEM?

- 1 IN 10 PATIENTS get an infection while receiving care
- UP TO 12% OF SURGICAL PATIENTS get a post-op infection, up to 51% antibiotic resistant
- UP TO 90% OF HEALTH CARE WORKERS do not clean their hands in some facilities
- INFECTIONS CAUSE UP TO 84% OF DEATHS among hospital-born babies
- UP TO 20% OF AFRICAN WOMEN get a wound infection after a caesarean section
- 50-70% OF INJECTIONS given in some developing countries are unsafe
- INFECTIONS can lead to disability; ANTIBIOTIC RESISTANCE, increased hospital time and death

HEALTH CARE WITHOUT AVOIDABLE INFECTIONS

INFECTION PREVENTION AND CONTROL CONTRIBUTES TO ACHIEVING SUSTAINABLE DEVELOPMENT GOALS and could save millions of lives

- 3 LIVES EVERY YEAR WOULD BE SAVED
- 6 MILLION MORE PATIENTS

WHAT'S THE SOLUTION?

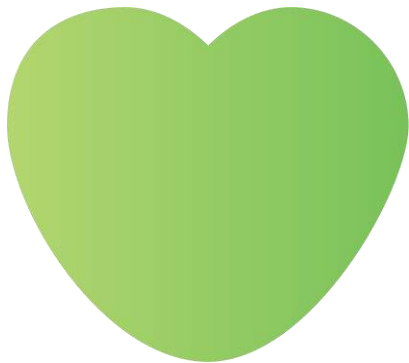
- HAVE ACTIVE INFECTION PREVENTION AND CONTROL PROGRAMMES and target antibiotic resistance
- USE CLEAN PRACTICES and asepsis for interventions
- PRACTICE HAND HYGIENE to prevent infections and reduce the spread of antibiotic resistance
- HAVE ENOUGH STAFF, a clean and hygienic environment and don't overcrowd health care facilities
- MONITOR INFECTIONS and make action plans to reduce their frequency
- NEVER RE-USE needles and syringes
- Only dispense antibiotics when TRULY NEEDED to REDUCE THE RISK OF RESISTANCE

World Health Organization

Bactiguard's vision

Eliminate healthcare associated infections to:

Save lives



Reduce cost



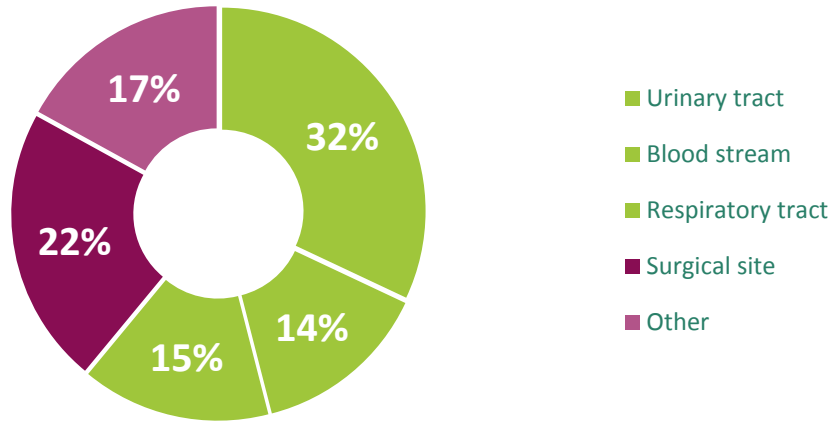
Reduce the use of antibiotics



And thereby prevent the spread of multiresistant bacteria

Common sources of infections and sepsis

Where does HAI occur?



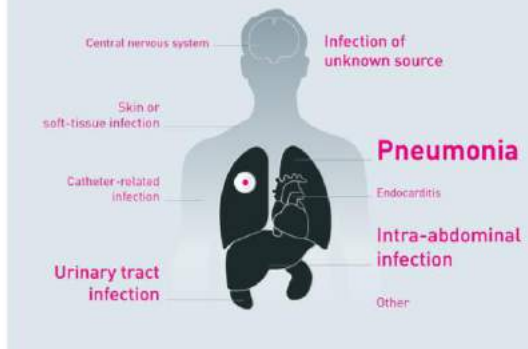
USA

Sepsis:

Sources of sepsis



The most common sources of sepsis are:



Source: Global Sepsis Alliance



BIP Foley Catheter



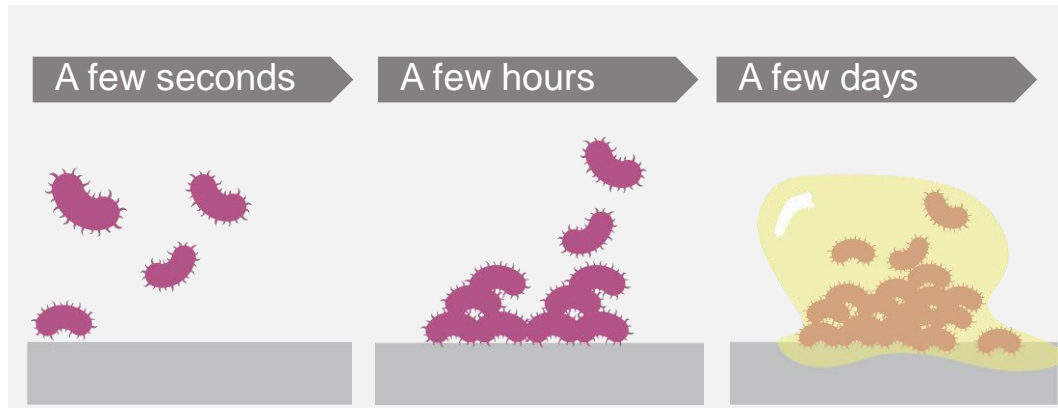
BIP ETT



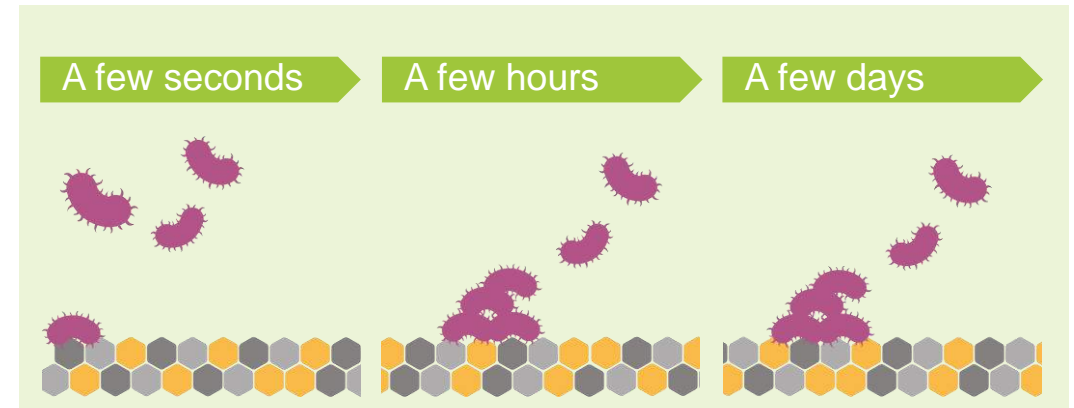
BIP CVC

Bacterial colonization – causing infections

Uncoated surface vs. Bactiguard coated surface



Uncoated surface



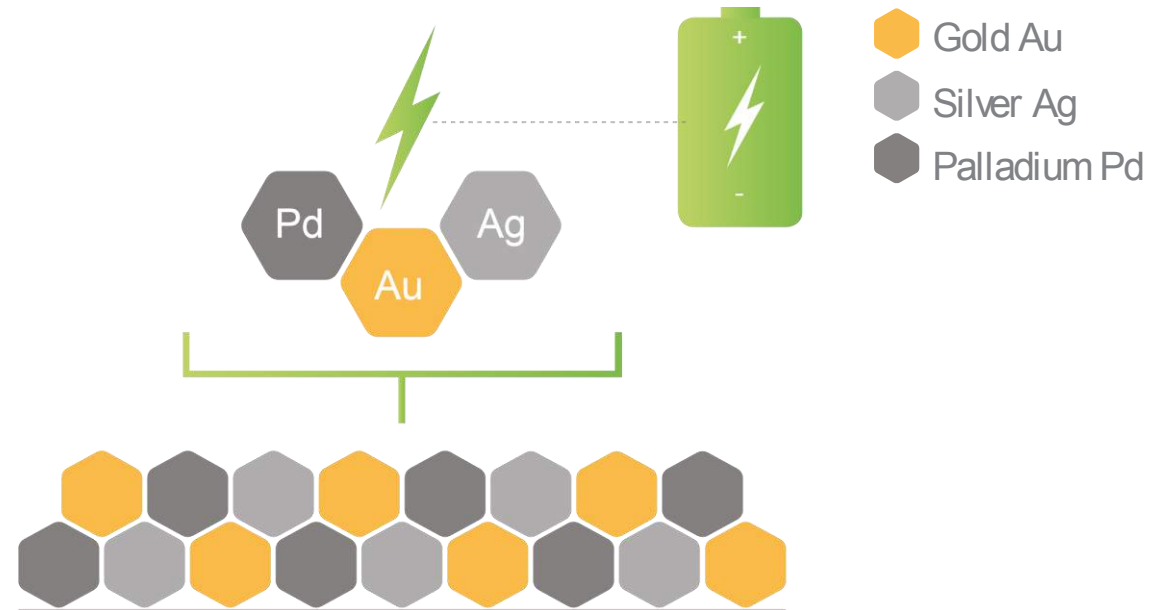
Bactiguard coated surface



The technology

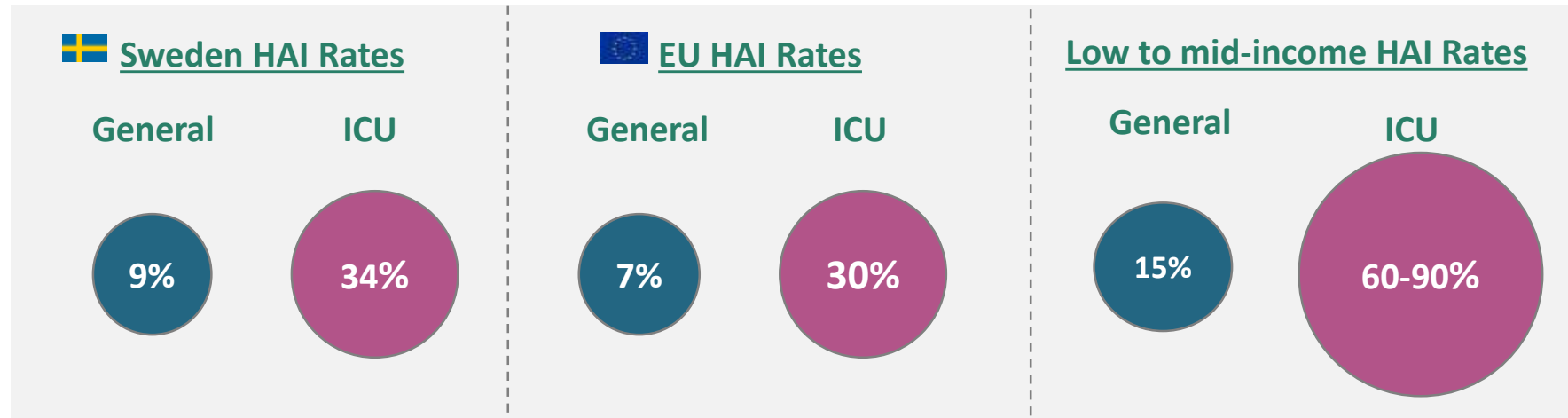
The galvanic effect – effective and safe

- When in contact with fluids the noble metals create a galvanic effect
- The different electro potentials of the metals create a micro current
- Preventing microbial adhesion
- Non-releasing mechanism
- **Effective and safe**



Considerable higher HAIs at Intensive care units(ICU)

Compared to hospitals in general

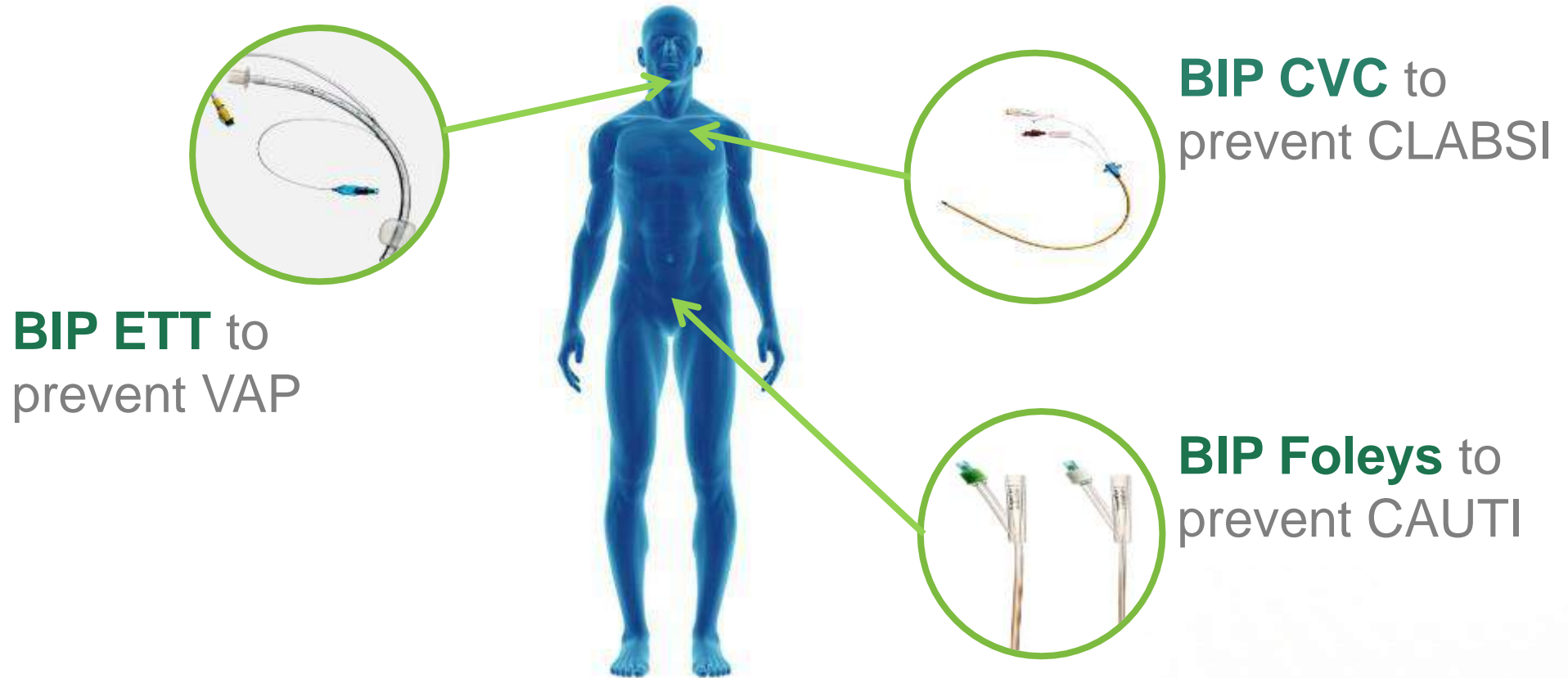


- Top three HAIs in ICUs
 - VAP – Ventilator Associated Pneumonia
 - CAUTI – Catheter Associated Urinary Tract Infection
 - CRBSI – Catheter Related Blood Stream Infection
- Cost of treating a case of VAP or CRBSI in ICU is in the range of 50-70k Euro
- Additional length of stay up to additional 22 days in the ICU
- Mortality for CRBSI and VAP up to 25% and 50% respectively

Why Bactiguard should be standard in every ICU



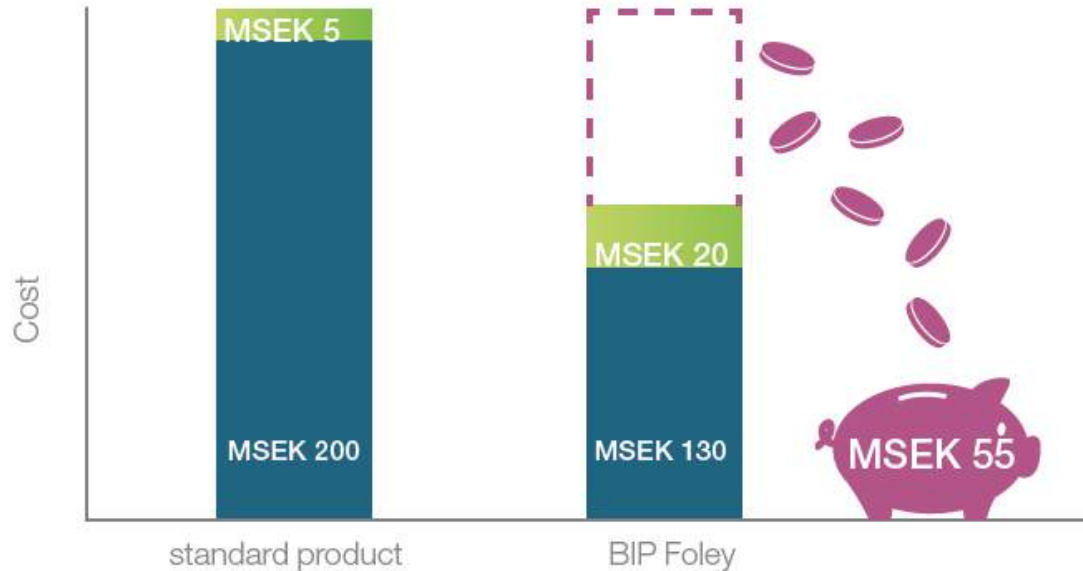
Bactiguard can offer protection against the 3 most common HAIs in the ICU



Health economics

Cost comparison of:
BIP Foley Catheter with standard product
An example from Sweden

- Product costs
- Treatment costs
- Cost savings



With an investment of MSEK 15, you can ultimately save MSEK 55

Urinary catheters used longer than 2 days	200,000
Incidence of infection	10%
Treatment cost CAUTI	SEK 5 000
Treatment cost sepsis	SEK 100 000
Infection reduction	35%
Extra cost per BIP Foley Catheter	SEK 75
Cost savings	MSEK 55

Concluding remarks

- Preventing infections has never been more important
- Address the problem at the source
- Introduce preventive actions:
 - Focus on total cost of treatment
 - Quality criteria in tenders and direct purchases
 - Develop new guidelines
- Use clinical evidence and data as a reference



More information available at www.bactiguard.com



For questions and additional information, please contact:



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