

# The Market for Hospital-Acquired Infection Control (Sterilization, Disinfection, Testing and Treatment)

<https://marketpublishers.com/r/MC76A94DC06EN.html>

Date: August 2013

Pages: 230

Price: US\$ 3,995.00 (Single User License)

ID: MC76A94DC06EN

## Abstracts

Given the cost of hospital-acquired and healthcare-associated infections (HAIs), demand has increased for solutions that can help the healthcare industry reduce infections and the costs associated with them. The U.S. Centers for Disease Control and Prevention (CDC) estimates that around 1 in 20 or 5% of hospitalized patients will contract an HAI. Worldwide, the rate of nosocomial infections is between 3.5% and 12% of admissions in developed regions. This has created a market opportunity for companies that can test for, treat and help prevent these infections. This opportunity is detailed in Kalorama Information's report, *The Market for Hospital-Acquired Infection Control (Sterilization, Cleaning, Testing, Treatment)*

This report focuses on preventing, testing and treating infections in the healthcare environment. The major consideration is given to bacterial nosocomial infections because a) they are the most frequent type of infections spread in the health care delivery setting, and b) the practical aspects of diagnosis and therapy are more meaningful based on a combination of medical and financial considerations.

The report will provide a market analysis in the areas of Prevention, Testing and Treatment.

Market analysis in this report considers primarily the epidemiological considerations and the size patient groups both in the United States and globally, where available. We have accumulated the most recent data available, understanding that virtually no organization does extensive studies on these applications on a regular basis.

Many studies are highly localized and may only apply to a community, state or country (more often countries that are not a part of the major markets for nosocomial diagnostic

and therapeutic products). In many instances, we have had to draw from broader epidemiologic data, that is, on data that reach outside of the hospital and primary care environment in order to construct a picture of the infection prevention, testing and treatment needs.

In looking at infections in the health environment, we consider the diagnostic and therapeutic technologies that are currently available and attempt to project trends for preventing, detecting and treating these infections. To some extent, we are limited by the activity of the industries associated with the activities mentioned above for these infections. For the most part, these activities are limited and the advanced technologies seen in other areas of medical application are not necessarily present in terms of microbiology.

The majority of competitive participation for Hospital-Acquired Infection control and is in the United States and Europe. However, competition is steadily escalating in the United States and Europe, which is encouraging more participation in other areas such as Asia and Latin America. Companies in this report include:

Advanced Sterilization Products

Becton Dickinson

Belimed AG

bioMerieux

Cantel

Cepheid

Kimberly-Clark

Merck & Co.

Nordion

Pfizer

Roche

Steris

TSO3

## Contents

### **CHAPTER ONE: EXECUTIVE SUMMARY**

#### Overview

- The Nosocomial Infection
- Scope and Methodology
- Total Size and Growth of the Market
- Issues and Trends Affecting Market
- Leading Competitors

### **CHAPTER TWO: INTRODUCTION AND INDUSTRY TRENDS**

#### Overview

- Introduction to Pathogens
- Classification of Antibacterial Organisms
- Patient Risk Factors
- General Infection Statistics
- Populations at Risk for Infection
- Demographics of the World
- Life Expectancy
- Nosocomial Infection Statistics
- Common Hospital (nosocomial) Infections
  - Description of Infections
- Infection Risk Assessments by Hospital Department
  - Burn Units
  - Intensive Care Units
  - Emergency Departments
  - Hospital Length of Stay
  - Extended Stay Environments
    - International Trends in Nursing Facilities
- Economic Trends
  - Comparison Between Healthcare Spending and Real Health Outcomes
- U.S. Government's National Plan to Prevent Healthcare Associated Infections (HAIs)
  - Steering Committee
  - The American Recovery and Reinvestment Act of 2009
  - Affordable Care Act (ACA) Funding
  - Epidemiology and Laboratory Capacity for Infectious Diseases (ELC) Funding
- U.S. Statewide Standardized Infection Ratio

## Reduction in Hospital Acquired Infections

- Reduction in Infections in Israel

- Burden of Hospital Acquired Infections

- Hospital-Acquired Infection Surveillance Process

## Case Studies

- Arizona Prevention Study

- Connecticut Funding for HAI Prevention and Reporting

- Pennsylvania Study of HAI Admissions and Readmissions

## Infections and Drug Resistance

- Easing Approvals of Antibiotics

- Causes of Drug Resistance

  - Antibiotic Abuse

  - Antibiotic Use in Agriculture

- Drug Resistance in Select Populations

  - Children

  - The Elderly

  - Compromised Individuals

- Measures for Reducing Resistance

  - Testing for the Selection of Anti-bacterial Therapy

  - Monitoring Therapy

- Screening Hospitalized patients

## Pharmaceutical Manufacturer and Marketer Trends

- Trends in Partnerships and Alliances

- Developers Trends

## **CHAPTER THREE: INFECTION PREVENTION**

### Overview

- Methods of Transmission

  - Airborne

  - Contact

  - Droplet

  - Vehicle

- High-Risk Facilities or Departments

- Technology Overview

  - Potential Use of Copper for Reducing Infections

  - Wide Area Disinfection Methods

  - Software for Infection Detection and Control

  - Antiseptic-Coated Catheters

Sterilization vs. Disinfection

    Sterilization

    Disinfection

Equipment and Solutions

Heat/Steam Sterilization

    Developments

Chemical Sterilization

    Sterilants

    Developments

Radiation Sterilization

    Developments

Market Overview

    Hospital-Acquired Infection Prevention Market by Geographical Region

    Competitive Analysis

## **CHAPTER FOUR: INFECTION TESTING**

Overview

    Drug-Resistance/Susceptibility Testing

    Genotypic Methods

        DNA Sequencing

        Solid-phase Hybridization Techniques

        Microarrays

        Real-time Polymerase Chain Reaction Techniques

    Phenotypic Methods

        Phage-based Assays

        Colorimetric Methods

        The Nitrate Reductase Assay

Specific Serious Hospital-Acquired Infection Testing

    Acinetobacter Baumannii

    Clostridium Difficile

        Developments

    Hospital-Acquired Pneumonia

    Pseudomonas Aeruginosa

    Staphylococcus Aureus

        Methicillin-resistant Staphylococcus Aureus (MRSA)

        Vancomycin-Intermediate/Resistant Staphylococcus Aureus (VISA/VRSA)

        Developments

    Tuberculosis

Developments  
Urinary Tract Infections  
Vancomycin-resistant Enterococcus  
Developments  
Ventilator-Associated Pneumonia  
New Developments  
Market Overview  
Total Market Size and Forecast  
Hospital-Acquired Infection Testing Market by Geographical Region  
Competitive Analysis

## **CHAPTER FIVE: INFECTION TREATMENT**

Overview  
Principles of Anti-bacterial Therapy  
  Infecting Organism  
  Antibiotic Sensitivity Testing  
  Site of Infection  
  Host Defenses and Organ Function  
  Antibiotic Pharmacokinetics  
  Monitoring Therapy  
Classifications of Antibacterial Products  
  Carbapenems  
  Cephalosporins  
  Macrolides  
  Penicillins  
  Quinolones  
  Sulfonamides  
  Tetracyclines  
Treatment Guidelines  
  Clostridium Difficile  
  Gastroenteritis  
  Hospital-Acquired Pneumonia  
  Ventilator-associated Pneumonia  
  Pseudomonas Aeruginosa  
  Staphylococcus Aureus  
  Stenotrophomonas maltophilia  
  Tuberculosis  
  Urinary Tract Infections

Leading Products  
New Developments  
Total Market Size and Forecast  
Hospital-Acquired Infection Treatment Market by Geographical Region  
Competitive Analysis

## **CHAPTER SIX: MARKET OPPORTUNITIES FOR HOSPITAL-ACQUIRED INFECTION CONTROL**

Market Considerations  
Market Overview  
Hospital-Acquired Infection Control Market by Geographical Region

## **CHAPTER SEVEN: COMPANY PROFILES**

Introduction  
Advanced Sterilization Products  
Company Performance  
Becton, Dickinson  
Company Performance  
Belimed  
Company Performance  
bioMerieux  
Company Performance  
Cantel  
Company Performance  
Cepheid  
Company Performance  
Getinge Group  
Company Performance  
Kimberly-Clark  
Company Performance  
Merck & Co  
Company Performance  
Nordion  
Company Performance  
Pfizer  
Company Performance  
Roche



Company Performance  
Sakura Seiki  
Steris  
Company Performance  
Tso3  
Company Performance

## **LIST OF MAJOR PROVIDERS**

## About

### Gastroenteritis

Gastroenteritis is a condition that causes irritation and inflammation of the stomach and intestines of the gastrointestinal tract. Diarrhea, crampy abdominal pain, nausea, and vomiting are the most common symptoms. Viral infection is the most common cause of gastroenteritis but bacteria, parasites, and food-borne illness (such as shellfish) can be the offending agent. Nosocomial gastroenteritis can be caused by bacteria or viruses (most frequently, viruses).

Bacterial causes of gastro enteritis include infection with:

Staphylococcus aureus

E. coli

Salmonella

Shigella

Campylobacter

C. difficile

### Classifications of Antibacterial Products

Several classifications of antibacterials are available for treating infections:

Carbapenems

Cephalosporins

Macrolides

Penicillins

Quinolones

Sulfonamides

Tetracyclines

## I would like to order

Product name: The Market for Hospital-Acquired Infection Control (Sterilization, Disinfection, Testing and Treatment)

Product link: <https://marketpublishers.com/r/MC76A94DC06EN.html>

Price: US\$ 3,995.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/MC76A94DC06EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

