

North America Antimicrobial Coatings for Medical Devices Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Coating Type (Antibacterial Coatings, Antiviral Coatings, and Others), Device Type (Catheters, Implantable Devices, Surgical Instruments, and Other Devices), Material [Metallic Coatings (Copper Coatings, Silver Coatings, and Other Metallic Coatings) and Non-Metallic Coatings (Polymeric Coatings, Organic Coatings, and Other Non-Metallic Coatings)], Application (General Surgery, Cardiovascular, Orthopedics, Gynecology, Dentistry, and Other Applications), and End User (Hospitals & Clinics, Diagnostic Centers, Ambulatory Surgical Centers, and Others)

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Report description:

The antimicrobial coatings for medical devices market in North America is expected to grow from US\$ 576.49 million in 2022 to US\$ 1,429.08 million by 2028. It is estimated to record a CAGR of 13.9% from 2022 to 2028.

Increasing Cases of Hospital-Acquired Infections (HAIs)

Healthcare-associated infections (HAIs) include catheter-associated urinary tract infections, central line-associated bloodstream

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infections, and ventilator-associated pneumonia. These infections may also occur at surgery sites and are known as surgical site infections. According to a report titled "2020 National and State Healthcare-Associated Infections Progress Report," published by the Centers for Disease Control and Prevention (CDC) in 2021, ~24%, 35%, and 15% rise was recorded in central line-associated bloodstream infections, ventilator-associated events, and Methicillin-resistant *Staphylococcus aureus* (MRSA) bacteremia, respectively, between 2019 and 2020 in the US. Moreover, as published in the January 2022 report by the National Healthcare Safety Network (NHSN), urinary tract infections (UTIs) are the fifth most common type of healthcare-associated infection. UTIs account for more than 9.5% of conditions reported by acute care hospitals. Catheter-Associated Urinary Tract Infection (CAUTI), one of the most common UTIs acquired in hospitals, is transmitted through urinary catheters that are placed to drain urine from the bladder. According to the Centers for Disease Control and Prevention (CDC) data published in 2020, ~75% of infections are associated with a urinary catheter. The most important risk factor leading to the development of CAUTI is the prolonged use of urinary catheters. ~15-25% of hospitalized patients receive urinary catheters during their hospital stays. Complications associated with CAUTI cause discomfort among patients, extending hospital stays and increasing treatment costs, further raising the possibility of mortality. According to the CDC, more than 13,000 deaths are annually associated with UTIs. Acute uncomplicated cystitis results in an estimated 6 days of discomfort, leading to approximately 7 million office visits per year with associated costs of US\$ 1.6 billion. Thus, HAIs are imposing a high economic burden on healthcare systems. Coating medical devices with antimicrobial materials may help lower the occurrence of HAIs. Antimicrobial coatings, which are effective against a broad range of pathogens, can be applied to a wide range of surfaces and materials, e.g. polyurethane and silicone. Thus, the increasing incidence of CAUTI complements the rise in the use of antimicrobial coatings in North America.

Market Overview

As per the US Department of Health and Human Services, 1 out of every 25 hospitalized patients is affected by an HAI at any time in the country. In hospitals in the US, the CDC estimated that HAIs account for ~1.7 million infections and 99,000 associated deaths yearly. HAIs are common in all types of care settings, including acute care hospitals, ambulatory surgical centers, dialysis facilities, outpatient care (e.g., physicians' offices and health care clinics), and long-term care facilities (e.g., nursing homes and rehabilitation facilities). Therefore, the rising prevalence of HAIs, highlighting the need for antimicrobial coatings on medical devices, fuels the North America antimicrobial coatings for medical devices market.

North America Antimicrobial Coatings for Medical Devices Market Revenue and Forecast to 2028 (US\$ Million)

North America Antimicrobial Coatings for Medical Devices Market Segmentation

The North America antimicrobial coatings for medical devices market is segmented into coating type, material type, device, material, application, end user, and country.

In terms of coating type, the market is segmented into antibacterial coatings, antiviral coatings, and others. The antibacterial coatings segment registered the largest market share in 2022.

The North America antimicrobial coatings for medical devices market by device type, is categorized into catheters, implantable devices, surgical instruments, and other devices. The catheters segment held the largest market share in 2022.

Based on material, the market is bifurcated into metallic coatings and non-metallic coatings. The metallic coatings segment held a larger market share in 2022.

In terms of application, the market is categorized into general surgery, cardiovascular, orthopedics, gynecology, dentistry, and other applications. The general surgery segment accounted for the largest market share in 2022.

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The North America antimicrobial coatings for medical devices market by end user, is categorized into hospitals and clinics, diagnostic centers, ambulatory surgical centers, and others. The hospitals and clinics segment held the largest market share in 2022.

Based on country, the North America antimicrobial coatings for medical devices market is segmented into the US, Canada, and Mexico. The US dominated the market in 2022.

The Dow Chemical Company; PPG Industries, Inc.; Microban International; Sciescent LLC; Covalon Technologies Ltd.; DSM; Specialty Coating Systems Inc.; AST Products, Inc.; and Hydromer are among the leading companies operating in the antimicrobial coatings for medical devices market in North America.

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