

Medical Waste Containers Market Report by Type of Waste (General Medical Waste, Infectious Medical Waste, Hazardous Medical Waste, Radioactive Medical Waste, and Others), Product (Chemotherapy Containers, Biohazardous Medical Waste Containers, Sharps Medical Waste Containers, Resource Conservation and Recovery Act (RCRA) Containers, and Others), End User (Hospitals and Private Clinics, Pharmaceutical and Biotechnology Companies and CROs, Academic Research Institutes, Diagnostic Laboratories, and Others), and Region 2024-2032

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Abstracts

The global medical waste containers market size reached US\$ 2,356.4 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 3,841.4 Million by 2032, exhibiting a growth rate (CAGR) of 5.5% during 2024-2032. The rising prevalence of various acute and chronic health conditions, increasing medical tourism, and the expansion of hospitals, clinics, and other healthcare settings are some of the major factors propelling the market.

Medical waste containers are used for containing, storing, transporting, and disposing various types of medical waste, including sharps, infectious materials, pharmaceuticals, and pathological waste. They help minimize the risk of infection and prevent the spread of diseases. They are made from leak-proof seals, puncture-resistant materials, and secure closures to prevent any accidental spills or releases of hazardous waste. Besides this, they aid in preventing infections, ensuring worker safety, promoting waste

segregation, and contributing to environmental sustainability. Moreover, waste containers provide a safe and secure way to handle and store hazardous waste, thereby preventing accidental injuries, such as needlesticks.

The growing awareness about the hazards of improper waste management among healthcare workers and the general public is driving the demand for medical waste containers. Educational campaigns conducted by health organizations and governments are reinforcing the importance of using proper waste containers for different types of medical waste. Furthermore, technological developments in the design and manufacturing of medical waste containers are contributing to market growth. These advancements include biohazardous waste containers that change color when full, or containers with inbuilt needle removal ports, which enhance user safety and convenience. Moreover, with the growing pharmaceutical industry, the waste generated from expired or unused medications is rising. This is increasing the need for safe disposal solutions like medical waste containers.

Medical Waste Containers Market Trends/Drivers:

Rise in the cases of hospital-acquired infections (HAIs)

The increasing prevalence of several hospital-acquired infections, such as surgical site infections, urinary tract infections, bloodstream infections, and pneumonia among healthcare professionals and patients is favoring market growth. Additionally, the rising prevalence of various chronic disorders, prolonged hospital stays, and the increasing utilization of invasive medical devices increase the exposure and vulnerability to pathogens, contributing to the rise in HAIs. There is a rise in global travel and healthcare tourism which is leading to the spread of infections across borders and escalating the need for effective medical waste containers. Furthermore, the increasing use of antibiotics in healthcare settings is contributing to the development of drug-resistant strains of bacteria and increasing the risk of HAIs, which, in turn, is propelling the demand for advanced medical waste containers.

Stringent waste management regulations

Stringent regulations and guidelines set by government bodies and regulatory agencies worldwide drive the demand for compliant medical waste containers. These regulations, such as those by the U.S. Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA), enforce strict protocols for medical waste handling, containment, transportation, and disposal. Healthcare facilities must comply with these regulations, creating a need for appropriate containers to ensure safe and

compliant waste management practices. The governing authorities are also focusing on infection control measures which are driving the demand for high-quality medical waste containers that can effectively isolate potentially infectious waste to minimize the risks associated with medical waste, protect public health, and maintain environmental sustainability. The governing authorities of various countries are implementing protocols for the handling and disposal of specific types of medical waste.

Expansion of Healthcare Settings

The rising number of healthcare facilities, including hospitals, clinics, and diagnostic centers, is one of the major factors driving the demand for the medical waste container across the globe. As the healthcare infrastructure expands, the volume of medical waste generated increases proportionally, necessitating proper waste management solutions and specialized containers. The growing global population, coupled with an aging population, and the rising prevalence of various chronic health conditions, road accidents, and sports injuries create a higher demand for healthcare services. As the population increases, the need for healthcare facilities and services expands, leading to the establishment of new healthcare settings or the expansion of existing ones. Furthermore, increasing investments by the governing authorities of the countries of developing economies to improve their healthcare infrastructure is contributing to market growth.

Medical Waste Containers Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global medical waste containers market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on type of waste, product and end user.

Breakup by Type of Waste:

- General Medical Waste
- Infectious Medical Waste
- Hazardous Medical Waste
- Radioactive Medical Waste
- Others

General medical waste dominates the market

The report has provided a detailed breakup and analysis of the market based on the

type of waste. This includes general medical waste, infectious medical waste, hazardous medical waste, radioactive medical waste, and others. General medical waste represented the largest segment.

General medical waste refers to the non-hazardous waste generated in healthcare facilities, including hospitals, clinics, and laboratories. This category of waste encompasses items, such as gloves, gowns, bandages, packaging materials, and non-infectious patient bedding. Although general medical waste is not considered highly hazardous, it still requires proper management due to the potential risks it poses to public health and the environment. Medical facilities must adhere to specific guidelines and regulations for the safe collection, segregation, storage, transportation, and disposal of general medical waste. By employing appropriate containers and following established protocols, healthcare providers can ensure the efficient and secure handling of general medical waste, contributing to the overall safety and sustainability of their operations.

Breakup by Product:

Chemotherapy Containers

Biohazardous Medical Waste Containers

Sharps Medical Waste Containers

Resource Conservation and Recovery Act (RCRA) Containers

Others

Chemotherapy containers hold the largest share in the market

A detailed breakup and analysis of the market based on the product has also been provided in the report. This includes chemotherapy containers, biohazardous medical waste containers, sharps medical waste containers, resource conservation and recovery act (RCRA) containers, and others. According to the report, chemotherapy containers accounted for the largest market share.

Chemotherapy containers are specifically designed to meet the unique requirements of chemotherapy waste, which consists of drugs and materials that can be harmful to human health and the environment. Regulatory bodies and environmental agencies are implementing strict guidelines and regulations for the proper handling and disposal of chemotherapy waste to prevent the spread of infection. Besides this, these containers provide an added layer of protection by minimizing the risk of exposure to hazardous drugs, reducing the potential health risks for staff. Furthermore, the leading market

players are focusing on improving chemotherapy container designs to enhance their functionality and safety features. These advancements include leak-proof seals, tamper-evident closures, and color-coded labeling for easy identification. Additionally, the availability of more efficient and user-friendly chemotherapy containers is contributing to their increased adoption.

Breakup by End User:

Hospitals and Private Clinics

Pharmaceutical and Biotechnology Companies and CROs

Academic Research Institutes

Diagnostic Laboratories

Others

Hospitals and private clinics hold the largest market share

A detailed breakup and analysis of the market based on the end user has also been provided in the report. This includes hospitals and private clinics, pharmaceutical and biotechnological companies and CROs, academic research institutes, diagnostic laboratories, and others. According to the report, hospitals and private clinics accounted for the largest market share.

The rising prevalence of hospital-acquired infections (HAIs) is catalyzing the demand for medical waste containers in hospitals and private clinics. Additionally, the expansion of hospitals and private clinics across the globe is propelling the adoption of medical waste containers. Apart from this, healthcare facilities are focusing on proper waste management to prevent the spread of infections and diseases by using secure and reliable medical waste containers to maintain a safe and clean healthcare environment. Furthermore, governments of various countries are enforcing strict regulations concerning the disposal and management of medical waste and mandating the use of specified containers to segregate and store different types of waste.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

North America exhibits a clear dominance, accounting for the largest medical waste containers market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa.

North America held the biggest market share since the region has a well-established medical infrastructure. The region is home to numerous hospitals, clinics, and healthcare facilities that generate significant volumes of medical waste. Additionally, the aging population and increasing prevalence of chronic diseases, such as diabetes, cancer, and heart disease, is resulting in an increase in medical waste, which is driving the need for more medical waste containers. Strict regulations for the collection, transportation, and disposal of medical waste in North America act as a significant driver for this market. Regulations such as the Medical Waste Tracking Act and guidelines from Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) ensure compliance with waste segregation,

which requires the use of appropriate medical waste containers.

Competitive Landscape:

Key market players are investing in research and development (R&D) activities to introduce products with advanced features, such as leak-proof seals, puncture resistance, odor control, and smart technologies. They are also focusing on strategic partnerships and mergers and acquisitions (M&A) to expand their product portfolio and market reach and enhance their capabilities. Collaborations with waste management service providers, healthcare facilities, and regulatory bodies help companies strengthen their position in the market and offer comprehensive waste management solutions. They are striving to meet the requirements set by regulatory bodies, such as the U.S. Food and Drug Administration (FDA) and various international health and safety standards. Several companies are actively engaged in obtaining certifications, such as UN packaging certifications, showcasing their commitment to quality, safety, and regulatory compliance.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Becton Dickinson and Company
Bemis Manufacturing Company
Bondtech Corporation
Cardinal Health Inc.
Daniels Sharpsmart Inc.
EnviroTain LLC
Henry Schein Inc
Mauser Packaging Solutions
Medegen Medical Products (Inteplast Group Corporation)
Stericycle Inc.
Terra Universal Inc.
Therma Fisher Scientific Inc.

Recent Developments:

In May 2023, five organizations in Denmark, including Becton, Dickinson and Company, Odense University Hospital, the Health Innovation Centre of Southern Denmark, Danish Technological Institute, and GMAF Circular Medico/EcoFitt, are collaborating to evaluate the feasibility of recycling used blood collection tubes. The pilot program aims to reduce medical waste and align with Denmark's Climate Action Strategy.

In January 2023, Thermo Fisher Scientific in Norway has developed a plastic-free technology, DynaGreen magnetic beads, which offers a more sustainable and eco-conscious solution for researchers in the field of life science.

In 2022, Stericycle Inc.'s SafeShield™ Medical Waste Container has been awarded as the Product of the Year for its high-quality design, durability, and antimicrobial properties that combat the growth of microorganisms.

Key Questions Answered in This Report

1. What was the size of the global medical waste containers market in 2023?
2. What is the expected growth rate of the global medical waste containers market during 2024-2032?
3. What are the key factors driving the global medical waste containers market?
4. What has been the impact of COVID-19 on the global medical waste containers market?
5. What is the breakup of the global medical waste containers market based on the type of waste?
6. What is the breakup of the global medical waste containers market based on the product?
7. What is the breakup of the global medical waste containers market based on the end user?
8. What are the key regions in the global medical waste containers market?
9. Who are the key players/companies in the global medical waste containers market?

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