

Digital Thoracic Drainage Devices Market Forecast to 2030 - Global Analysis by Product Type (Single Chamber and Multiple Chambers), Application (Cardiac Surgeries, Thoracic and Pulmonary Surgery, Oncology and Trauma, Infectious Diseases, and Others), End User (Hospitals, Ambulatory Surgical Centers, and Others), and Geography

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Abstracts

The Digital thoracic drainage devices market was valued at US\$ 155.34 million in 2022 and is expected to reach US\$ 232.29 million by 2030; it is estimated to record a CAGR of 5.2% from 2022 to 2030. The digital thoracic drainage devices market growth is primarily driven by the increasing incidence of lung cancer, ongoing developments in medical devices and burgeoning growing adoption of advanced medical devices, and rising incidences of cardiovascular diseases and respiratory diseases. However, the lack of skilled personnel hinders the digital thoracic drainage devices market growth.

Inclination Toward Digital Devices Opportunity for Growth of Digital Thoracic Drainage Devices Market

The healthcare sector is keen on adopting medical devices enabled by digital technologies. The incorporation of IoT and artificial intelligence imparts capabilities such as real-time readings and health tracking into digital medical devices. Currently, the healthcare sector is rapidly adopting telecommunications devices in respiratory applications. Digital technologies in pulmonary function monitoring have been affirmed to provide significant and cost-effective results in home-care settings. An internet-based digital drainage system would help healthcare staff to monitor their patients' health in the homecare settings, alongside enabling an early discharge of patients from hospitals,



thus facilitating cost reduction. With these systems, healthcare providers can address all patient concerns remotely. However, a few of the notable risks associated with internet-based digital thoracic drainage devices include uncertainties related to the internet, leading to may create emergencies such as disconnection or malfunction of the device due to poor connectivity. Such shortcomings make taking intermediate steps, such as integrating good internet network with better connectivity and installing systems to notify the disparity in the readings provided by the digital thoracic systems before discharging patients essential. Irrespective of these limitations, internet-based digital thoracic drainage devices are expected to have a good possibility of acceptance in the thoracic telemedicine area, thereby providing notable growth opportunities to the digital thoracic drainage devices market in the future.

Furthermore, With continuous ongoing developments, healthcare providers are likely to start using digital thoracic drainage devices in pediatric thoracic procedures. The use of digital thoracic drainage devices for pediatric thoracic surgery is underreported. The Digital Thoracic Drainage System: A New Tool For Pediatric Thoracic Surgery article published in the Portuguese Journal of Cardiac Thoracic and Vascular Surgery in 2022 reported the first use of a digital thoracic drainage device in children in Portugal. In 2021, a cross-sectional study was conducted in the Department of Pediatric Surgery, Centro Hospitalar Universit?rio de S?o Jo?o, Portugal. The study included children from the age group of 0-18 years, in which digital thoracic drainage devices were used during lung resection, due to the occurrence of primary spontaneous pneumothorax. Medela's Thopaz+ was used in this study, and certain observations were made concerning the device. The study concluded that digital thoracic drainage devices would have an important part to play in the technological advancements associated with pediatric thoracic surgeries, and they would be valid and adequate in these procedures. Study observations further state that Medela needs to adopt and develop a scale to facilitate readings of 5mL/min in air leak graphics in pediatric patients. This indicates more studies are required to collect data and prospective trials are needed to confirm the use of digital thoracic drainage devices in pediatric thoracic surgery. Thus, digital thoracic drainage systems for pediatric applications are likely to emerge as new trends in the market in the future

Product Type-Based Insights

The digital thoracic drainage devices market, by product type, is bifurcated into single chamber and multiple chambers. The single chamber segment held a larger digital thoracic drainage devices market market share in 2022 however, multiple chamber segment is anticipated to register a higher CAGR of 6.1% during the forecast period.



Application-Based Insights

The digital thoracic drainage devices market, by application, is segment into thoracic and pulmonary surgery, infectious diseases, oncology and trauma, cardiac surgery, and others. The thoracic and pulmonary surgery segment held a largest market share in 2022 and same segment is anticipated to register a highest CAGR of 5.6% during the forecast period.

End User-Based Insights

The digital thoracic drainage devices market, by end user, is segment into hospitals, ambulatory surgical centers, and others. The hospitals segment held a largest market share in 2022 and same segment is anticipated to register a highest CAGR of 5.6% during the forecast period.

A few of the major primary and secondary sources referred to while preparing the report on the Digital thoracic drainage devices market are the World Health Organization (WHO), Centers for Disease Control and Prevention (CDC), American Association for Thoracic Surgery, Centers for Disease Control and Prevention, International Agency for Research on Cancer (IARC), and National Cancer Registry (NCR).



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