

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

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Abstracts

The Middle East & Africa digital thoracic drainage devices market is expected to grow from US\$ 4.65 million in 2022 to US\$ 6.23 million by 2030. It is estimated to grow at a CAGR of 3.7% from 2022 to 2030.

AI-Powered Thoracic Diagnostics Fuels Middle East & Africa Digital Thoracic Drainage Devices Market

The future of digital thoracic diagnostics is poised for a transformative shift, primarily fueled by the integration of Artificial Intelligence (AI) into the field. AI-enhanced diagnostics represent a pioneering trend that promises to revolutionize how thoracic conditions are detected and managed. Advanced machine learning algorithms, trained on a vast dataset of thoracic images, can quickly and accurately identify abnormalities, ranging from lung nodules to subtle lung tissue changes.

This development holds immense potential for earlier and more precise diagnoses, particularly in conditions like lung cancer, where early detection significantly impacts survival rates. AI can rapidly analyze large volumes of imaging data, allowing radiologists and clinicians to focus on more complex cases, interpret results with greater confidence, and expedite treatment decisions. Additionally, AI-driven predictive models

can help access disease progression and treatment responses over time, aiding in personalized patient care.

The integration of AI into thoracic diagnostics represents a paradigm shift, promising to enhance the efficiency and effectiveness of respiratory healthcare, ultimately leading to enhanced patient results and a more sustainable healthcare system.

Middle East & Africa Digital Thoracic Drainage Devices Market Overview

The Middle East & Africa digital thoracic drainage devices market is segmented into the UAE, South Africa, Saudi Arabia, and the Rest of Middle East & Africa. Increase in the geriatric population, an upsurge in cardiothoracic abnormalities, a higher rate of diagnosis and surgical treatment of cardiothoracic abnormalities, and the development of healthcare infrastructure. The increasing prevalence of pneumothorax is one of the prime reasons driving the growth of the Middle East & Africa digital thoracic drainage devices market in Saudi Arabia. Chest pain, tachypnea, dyspnea, dry cough, subcutaneous emphysema, respiratory distress indicators, tiredness, hypotension, and tachycardia are a few of the symptoms of pneumothorax. Possible reasons for ruptured or damaged chest or lung walls include lung disease, assisted breathing with a ventilator, sports or accident injuries, or fluctuations in air pressure during scuba diving or mountain climbing. On the other hand, the etiology of pneumothorax is unknown sometimes. The study "Characteristics of Neonatal Pneumothorax in Saudi Arabia" was conducted with 2,204 infants admitted to the neonatal intensive care unit (NICU) at King Fahad Medical City, Saudi Arabia, which involved the records of newborns with pneumothorax. Around 86 patients were diagnosed with pneumothorax, with an incidence of 3.9%, and 25 newborns with pneumothorax died. Thus, such a high incidence of pneumothorax fuels the Middle East & Africa digital thoracic drainage devices market in Saudi Arabia.

Middle East & Africa Digital Thoracic Drainage Devices Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Digital Thoracic Drainage Devices Market Segmentation

The Middle East & Africa digital thoracic drainage devices market is segmented into product type, application, end user, and country.

Based on product type, the Middle East & Africa digital thoracic drainage devices market is segmented into single chamber and multiple chambers. The single chamber

segment held a larger share of the Middle East & Africa digital thoracic drainage devices market in 2022.

Based on application, the Middle East & Africa digital thoracic drainage devices market is segmented into cardiac surgery, thoracic and pulmonary surgery, oncology and trauma, infectious diseases, and others. The thoracic and pulmonary surgery segment held the largest share of the Middle East & Africa digital thoracic drainage devices market in 2022.

Based on end user, the Middle East & Africa digital thoracic drainage devices market is segmented into hospitals, ambulatory surgical centers, and others. The hospitals segment held the largest share of the Middle East & Africa digital thoracic drainage devices market in 2022.

Based on country, the Middle East & Africa digital thoracic drainage devices market is segmented into the UAE, South Africa, Saudi Arabia, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the Middle East & Africa digital thoracic drainage devices market in 2022.

Cardinal Health Inc, Getinge AB, Medela AG, Redax SpA, and Teleflex Inc are some of the leading companies operating in the Middle East & Africa digital thoracic drainage devices market.

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