

Respiratory Disease Testing Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Test Type (Imaging Tests, Mechanical Tests, and In-vitro Diagnostic Tests), By Application (COPD, Lung Cancer, Asthma, Tuberculosis), By End User (Hospitals, Diagnostic Centers, and Others), By Region and Competition By Type (Bladder, Piston, Diaphragm, and Spring), By Application (Blow Out Preventers (BOP), Mud Pumps, Offshore Rigs, and Others), By Deployment (Onshore, Offshore), By Region and Competition

<https://marketpublishers.com/r/R691AE33F636EN.html>

Date: October 2023

Pages: 190

Price: US\$ 4,900.00 (Single User License)

ID: R691AE33F636EN

Abstracts

The Global Respiratory Disease Testing Market achieved a valuation of USD 6.01 Billion in 2022 and is poised for robust expansion throughout the forecast period with a projected Compound Annual Growth Rate (CAGR) of 5.72% and expected to reach USD 8.30 Billion through 2028. This market encompasses the evaluation of lung function and associated processes, collectively known as respiratory diagnostics. This involves a spectrum of mechanical, imaging, and molecular diagnostic tests aimed at detecting conditions such as asthma, chronic obstructive pulmonary disease (COPD), lung cancer, bronchitis, and pulmonary fibrosis. The techniques applied in this domain include spirometry, oximetry, transcutaneous CO2 monitoring, sniff nasal inspiratory pressure (SNIP), chest X-ray, and computed tomography (CT) scan. In specific cases, sleep studies may also be conducted to diagnose sleep apnea and nocturnal hypoventilation.

Key Market Drivers:

Growing Burden of Respiratory Diseases: The rising prevalence of respiratory diseases acts as a pivotal driver for market growth. Factors such as increased smoking, alcohol consumption, sedentary lifestyles, and stress have contributed to the escalation of COPD cases and other severe respiratory conditions like lung cancer. Moreover, advancements in respiratory diagnostic testing technologies, including Internet of Things (IoT) and Artificial Intelligence (AI) for COPD diagnosis and outpatient management, have positively influenced market expansion. Private hospitals and healthcare centers exhibit escalating demand for respiratory diagnostic devices. Government and non-governmental organizations (NGOs) are also striving to enhance access to quality healthcare, fostering market growth. Respiratory symptoms are among the primary reasons for seeking medical consultation in primary healthcare centers, underscoring the growing burden of respiratory diseases and their impact on the demand for respiratory disease testing.

Technological Advancements in Testing Devices and Modalities: The market is witnessing significant traction from technological advancements. Key players in this arena are focusing on the development of Artificial Intelligence (AI) and machine learning technologies to optimize treatment protocols and enhance patient outcomes. For example, Respira Labs introduced an AI-powered wearable device named Sylvee for monitoring lung function, enabling early COPD diagnosis and management. Acquisitions are also contributing to market growth, as seen through CAIRE Inc.'s acquisition of MGC Diagnostics Holdings to diversify their offerings and consolidate their position in the market.

Increasing Geriatric Population: The global geriatric population is projected to surge, and with it, the susceptibility to respiratory infections due to physiological changes in the respiratory system. As respiratory diseases are more severe in the elderly, early detection and understanding of these conditions are crucial for improving patient outcomes. The rising elderly population thus fuels the growth of the respiratory disease testing market.

Increasing Government Initiatives: Government initiatives are pivotal in fostering advancements and growth in the respiratory disease testing market. National action plans focused on respiratory diseases, surveillance programs, research funding, and public awareness campaigns create an environment conducive to research, innovation, and improved healthcare infrastructure. These initiatives play a vital role in addressing the global burden of respiratory diseases and enhancing patient outcomes.

Key Market Challenges:

High Cost and Lack of Skilled Professionals: Diagnostic procedures come with a substantial cost, and the rapid advancement of technology has led to a shortage of qualified specialists. This shortage hampers the proper execution of procedures, including the handling of instruments and execution of tests, thereby impeding market growth.

Limited Reimbursement Policies: Inadequate or nonexistent reimbursement policies globally can hinder the demand for diagnostic tests, limiting market growth. Without proper reimbursement, patients may hesitate to undergo respiratory disease testing, leading to delayed diagnosis and treatment, particularly in the Asia Pacific region.

Key Market Trends:

Point-of-Care Testing (POCT) Expansion: The expansion of point-of-care testing for respiratory diseases facilitates rapid and convenient testing in various healthcare settings. POCT devices provide quick results, aiding timely diagnosis and monitoring, particularly in resource-limited environments.

Integration of Artificial Intelligence (AI): AI-driven algorithms enhance the accuracy and interpretation of respiratory disease test results, leading to more precise diagnoses and personalized treatment recommendations. AI can identify patterns and correlations that human experts might miss, revolutionizing respiratory disease diagnostics.

Segmental Insights:

Test Type Insights: The market is categorized into Imaging Tests, Mechanical Tests, and In-vitro Diagnostic Tests. In-vitro Diagnostic Tests are dominant due to their broad adoption and efficacy. Imaging Tests are experiencing rapid growth due to increased demand for precise diagnostic methods and advancements in imaging technology.

End User Insights: Hospitals dominate the market due to their comprehensive care and multidisciplinary approach. Diagnostic centers are growing rapidly, fueled by the increasing trend towards outpatient care and demand for standalone diagnostic services.

Regional Insights: North America maintains dominance due to advanced healthcare

infrastructure, healthcare expenditure, and prevalence of respiratory diseases. Asia Pacific is the fastest growing region, driven by a large population base, urbanization, awareness about respiratory diseases, and improving healthcare infrastructure.

Key Market Players

Beckton Dickinson and Company

Koninklijke Philips N.V.

ResMed Inc.

Medtronic PLC

Carestream Health

MG Diagnostic Corporation

Abbott Laboratories

ThermoFisher Scientific

Biomerieux

QIAGEN

Report Scope:

In this report, the Global Respiratory Disease Testing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Respiratory Disease Testing Market, By Test Type:

Imaging Tests

Mechanical Tests

In-vitro Diagnostic Tests

Respiratory Disease Testing Market, By Application:

COPD

Lung Cancer

Asthma

Tuberculosis

Respiratory Disease Testing Market, By End User:

Hospitals

Diagnostic Centres

Others

Respiratory Disease Testing Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Respiratory Disease Testing Market.

Available Customizations:

Global Respiratory Disease Testing market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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