

Global Minimally Invasive Biopsy Techniques Market By Product Offered (Tests, Kits & Consumables, Instruments), By Technique (Liquid Biopsy, Optical Biopsy, Brush Biopsy, Pigmented Lesion Assays, Others {Breath Biopsy etc.}), By Circulating Biomarker (Circulating Tumor Cells (CTCs), Cell Free DNA (cfDNA), Circulating Tumor DNA (ctDNA), Extracellular Vesicles, Others {miRNA, CTECs, circRNA etc.}), By Application (Clinical v/s Therapeutic), By End User (Hospitals & Clinics, Ambulatory Care Center, Academic & Research Institutions), By Region, Competition Forecast & Opportunities, 2027

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Abstracts

Global Minimally Invasive Biopsy Techniques Market stood at USD 4,501.20 million in 2021 and is expected to grow at a CAGR of 12.36% during the forecast period. When compared to open diagnostic surgery, minimally invasive biopsy reduces the number of surgical treatments required. In individuals with suspected or ambiguous breast lesions which can be identified by imaging, minimally invasive biopsy has taken the place of open excisional biopsy. When compared to surgical excision, Minimally Invasive Biopsy (MIB) has a similar or higher level of precision which lessens the psychological toll on the patients and is less economical. Compared to open diagnostic surgery, MIB reduces the number of surgical procedures needed in patients with impalpable cancers like breast cancer. The increased need for biopsy testing to detect cancerous cells, identify autoimmune, inflammatory, and infectious diseases, as well as the wide adoption of less

invasive surgical methods has increased in the past few years and has highlighted the need for its further expansion. Early cancer detection and increased precision compared to incisional and excisional biopsies have been the constant drivers of this sector. The biopsy with minimally invasiveness can detect cancer and advance the treatment monitoring and selection. The minimal invasive biopsy can be performed more than one time in comparison to the surgical biopsy for tissue extraction providing more ease in the biopsy process and detection of different type of cancers.

Rise in Cancer Cases Due to Multiple Factors

In many nations with low and medium Human Development Index (HDI), significant lifestyle changes, sociocultural contexts, and environments significantly impact the incidence of risk factors for cancers. The delaying of childbearing and having fewer children, as well as higher levels of excess body weight and physical inactivity, are among the common risk factors which increase the chances of breast cancer. Breast cancer incidence rates are increasing globally. Due to lifestyle variables, including smoking, obesity, and alcohol consumption, cancer tends to be more common in high-income countries. It also predominates in nations with good health care systems, which can identify and cure cancer more effectively than those in low-income countries. Furthermore, cancer survival rates in every nation continue to rise because of developments in medical knowledge and technology. Even while a smaller percentage of cancer patients pass away from the illness, the overall number of cancer-related deaths is rising. This is sometimes ascribed to the fact that the world's population is aging faster than ever before, which increases the risk of developing cancer. The most common ways to express cancer rates are as a crude rate or an age-standardized rate, which accounts for the fact that some nations' populations are often younger than others. Thus, early diagnosis and prevention is the basic step to decreasing the mortality rates, which is now being focused on the implementation of more awareness for the use of minimally invasive techniques for conducting biopsies.

Integration of Artificial Intelligence Will Support the Market Growth

The growing use of robotics in biopsy operations is one of the key trends in the market for minimally invasive biopsy technology. Robotic surgery has increased surgical accuracy and better vision of the operating site. Due to its capacity to offer greater control, and range of motion compared to conventional open operations, these devices are now being used more frequently.

Another development is the use of molecular imaging powered by Artificial Intelligence,

which has the potential to significantly improve the diagnosis of colorectal cancer. AI algorithms enable the comparison of a patient's current information with vast databases of patients who have already received treatment, potentially enabling the choice of the best treatment option and the prediction of the outcome of that option. In the case of colorectal cancers, capsule endoscopy (CE), which is a minimally invasive diagnostic method, is a potent alternate strategy. Traditionally, colon CE has been a labor-intensive process that relies on human interpretation and analysis of the photographed pictures to find probable colorectal cancer (CRC) lesions. As the small intestine cannot be reached by traditional upper endoscopy or by colonoscopy, the use of capsule endoscopy provides an accessible way to evaluate the small intestine by the doctor.

Another AI advancement can be seen in liquid biopsies, where due to the size and complexity of the data produced by liquid biopsies, existing approaches are unable to process them efficiently. For automated assessments of these data and future predictions, machine learning is a potential method. Numerous ML techniques, including SVM, random forest (RF), and ANNs, have been successfully applied in the medical industry.

Initiatives at Global Level to Support Market Growth

WHO and IARC have collaborated with other UN organizations to enhance political commitment to cancer prevention and control globally. It aims to carry out research on the causes of human cancer and the mechanisms of carcinogenesis; and interact with other UN entities, including the International Atomic Energy Agency to track the prevalence of cancer (as part of the Global Initiative on Cancer Registries' activities) to reach out the countries where the availability of data is limited.

It is also focusing to determine the 'best buys' and other high-priority, cost-effective cancer preventive and control measures which includes minimally invasive biopsy techniques and is also providing guidelines and standards to direct the development and application of programs for cancer prevention, early detection, screening, treatment, palliative care, and survivorship care in both adults and children.

The initiative also includes creating awareness for the application of minimally invasive biopsy techniques to enhance access to cancer treatments by bolstering local and national health systems.

Increasing Proliferation of the Minimally Invasive Surgical Procedure

Core needle biopsy and fine needle aspiration biopsy are two minimally invasive biopsy methods which are extensively used in breast biopsy and have several advantages over surgical biopsy. The costs are lower, there is less scarring, the diagnostic accuracy is almost the same, and there is no need for general anesthesia or sedation with minimally invasive biopsy. In nations with low resources, where patients frequently arrive with advanced-stage breast cancer, a minimally invasive biopsy can enable accurate diagnosis and quick care in a cost-effective manner. The execution of a successful program in minimally invasive breast biopsy is marked by several events: public awareness of these procedures' for being less invasive in nature, which can encourage women to seek care early; a shift in medical professionals' treatment philosophies that favors patient involvement in decision-making and acceptance of less intrusive but reliable diagnostic techniques.

Market Segmentation

The Global Minimally Invasive Biopsy Techniques market is segmented based on Product Offered, Technique, Circulating Biomarker, Application, End User, region and company. Based on Product Offered, the market can be split into Tests, Kits & Consumables, Instruments. Based on Technique, the market is segmented into Liquid Biopsy, Optical Biopsy, Brush Biopsy, Pigmented Lesion Assays, Others. Based on the Circulating Biomarker, the segment is divided into Circulating Tumor DNA (ctDNA), Circulating Tumor Cells (CTCs), Cell Free DNA (cfDNA), Extracellular Vesicles, Others. Based on Application, the market is bifurcated into Clinical and Therapeutic application. The Clinical application is sub segmented into Treatment Monitoring, Prognosis & Recurrence Monitoring, Treatment Selection, Others. Similarly, the Therapeutic Application is further sub segmented into Lung Cancer, Breast Cancer, Prostate Cancer, Colorectal Cancer, Others. Based on the End User, the market is divided Hospitals & Clinics, Academic & Research Institutions and Ambulatory Care Centers.

Company Profiles

Thermo Fisher Scientific, Inc., F. Hoffmann-La Roche AG, QIAGEN NV, Guardant Health, Inc., Veracyte, Inc., Myriad Genetics, Inc., Biocept, Inc., NeoGenomics Laboratories, Inc., Adaptive Biotechnologies Corporation, DermTech, Inc. are among the major market players operating in the Global Minimally Invasive Biopsy Techniques market.

Report Scope:

In this report, Global Minimally Invasive Biopsy Techniques market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Minimally Invasive Biopsy Techniques Market, By Product Offered:

Tests

Kits & Consumables

Instruments

Minimally Invasive Biopsy Techniques Market, By Technique:

Liquid Biopsy

Optical Biopsy

Brush Biopsy

Pigmented Lesion Assays

Others (Breath Biopsy etc.)

Minimally Invasive Biopsy Techniques Market, By Circulating Biomarker:

Circulating Tumor Cells (CTCs)

Cell Free DNA (cfDNA)

Circulating Tumor DNA (ctDNA)

Extracellular Vesicles

Others (miRNA, CTECs, circRNA etc.)

Minimally Invasive Biopsy Techniques Market, By Application:

Clinical

Therapeutic

Minimally Invasive Biopsy Techniques Market, By Clinical Application

Treatment Monitoring

Prognosis & Recurrence Monitoring

Treatment Selection

Others (Diagnosis and Screening etc.)

Minimally Invasive Biopsy Techniques Market, By Therapeutic Application

Breast Cancer

Lung Cancer

Prostate Cancer

Colorectal Cancer

Others (Blood Cancer, Thyroid Cancer etc.)

Minimally Invasive Biopsy Techniques Market, By End User:

Hospitals & Clinics

Ambulatory Care Centers

Academic & Research Institutions

Minimally Invasive Biopsy Techniques Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Poland

Asia-Pacific

China

India

Japan

South Korea

Australia

Thailand

Vietnam

Malaysia

South America

Brazil

Argentina

Colombia

Middle East & Africa

Turkey

Egypt

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Global Minimally Invasive Biopsy Techniques market.

Available Customizations:

With the given market data, TechSci 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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