

# Image-Guided Biopsy Market Booms as Demand for Precision Diagnostics Rises & Expected to Reach USD 3.39 Billion by 2030

*Technological Advancements Drive Growth in Image-Guided Biopsy Market*

AUSTIN, TEXAS, UNITED STATES, April 30, 2024 /EINPresswire.com/ -- The global [image-guided biopsy market](#) has witnessed significant growth over the years, driven by advancements in medical imaging technology and the rising incidence of cancer and other diseases requiring diagnostic biopsy procedures. According to SNS Insider, the market size was valued at USD

2266.21 million in 2022 and is expected to reach USD 3386.68 million by 2030, with a compound annual growth rate (CAGR) of 5.15% during the forecast period of 2023-2030.

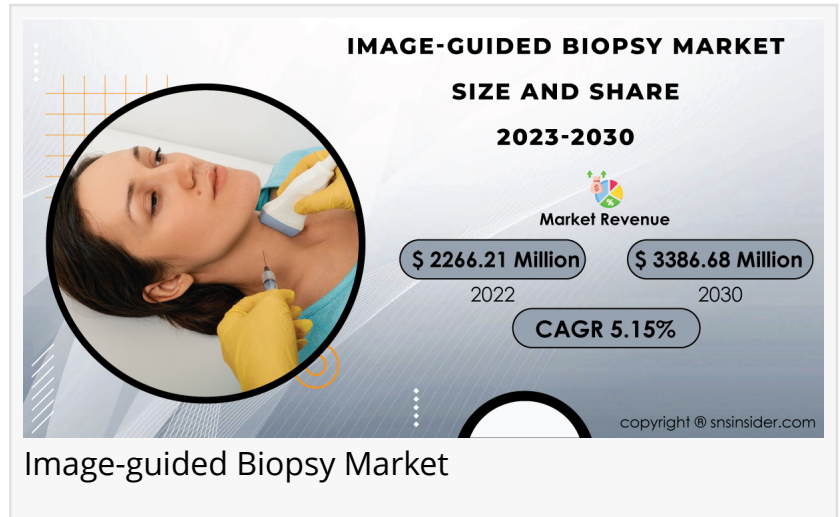
## Report Scope:

The image-guided biopsy market encompasses a wide range of imaging modalities and biopsy techniques used for accurate tissue sampling and diagnosis. These techniques include computed tomography (CT), magnetic resonance imaging (MRI), ultrasound, and others. The market scope also includes various biopsy needle types such as fine-needle aspiration (FNA), core biopsy, and vacuum-assisted biopsy, among others.

## Market Analysis:

The market growth is primarily driven by the increasing prevalence of cancer and the growing demand for minimally invasive diagnostic procedures. Image-guided biopsies offer several advantages over traditional biopsy methods, including higher accuracy, reduced risk of complications, and quicker recovery times for patients. Additionally, advancements in imaging technology, such as the integration of artificial intelligence (AI) and machine learning algorithms, are further enhancing the accuracy and efficiency of image-guided biopsy procedures.

Geographically, North America currently dominates the image-guided biopsy market, attributed to the presence of well-established healthcare infrastructure, high adoption rates of advanced



medical technologies, and increasing investments in research and development. However, Asia-Pacific is expected to witness significant growth during the forecast period, driven by rising healthcare expenditure, improving healthcare infrastructure, and increasing awareness about early disease detection and diagnosis.

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#### Regional Analysis:

- North America held a 38% share of the global image-guided biopsy market in 2022, led by the United States which has high procedural volumes
- Europe accounted for 27% of the market, with major contributions from Germany, UK, France, and Italy focused on expanding interventional radiology capabilities
- The Asia Pacific region is anticipated to register the highest CAGR of 6.9% during 2023-2030 driven by improving healthcare access and infrastructure

#### Emerging Trends and Opportunities:

- Technological Advancements: Ongoing advancements in imaging technology, such as the development of high-resolution imaging systems and real-time imaging guidance, are enhancing the accuracy and efficiency of biopsy procedures.
- Integration of AI: The integration of artificial intelligence and machine learning algorithms into imaging systems is enabling automated lesion detection, precise needle guidance, and real-time analysis of biopsy samples, thereby improving diagnostic accuracy and efficiency.
- Rise of Liquid Biopsies: Liquid biopsies, which involve the analysis of circulating tumor cells, cell-free DNA, and other biomarkers in bodily fluids, are emerging as non-invasive alternatives to traditional tissue biopsies, offering potential advantages in early cancer detection and monitoring treatment response.
- Expansion of Indications: Image-guided biopsies are not only limited to cancer diagnosis but are also increasingly being utilized for the diagnosis of various non-neoplastic conditions, such as inflammatory diseases, infectious diseases, and autoimmune disorders.

#### Challenges and Considerations:

- Cost Constraints: The high cost of imaging equipment and biopsy procedures may limit market growth, especially in developing regions with limited healthcare resources and infrastructure.
- Regulatory Hurdles: Stringent regulatory requirements and approval processes for medical devices and imaging systems may pose challenges for market players, particularly in terms of product development and commercialization.
- Limited Access to Healthcare: Limited access to healthcare facilities, particularly in rural and underserved areas, may hinder the adoption of image-guided biopsy procedures, impacting market growth in certain regions.
- Technological Complexity: The complexity of imaging systems and biopsy procedures may require specialized training and expertise among healthcare professionals, necessitating investments in training and education initiatives.

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#### Key Takeaways from the Market Study:

- Rising prevalence of cancers and other chronic diseases coupled with increasing adoption of minimally invasive biopsy techniques are driving market growth
- Among imaging modalities, ultrasound-guided biopsies accounted for the leading segment in 2022, while demand for CT and MRI-guided procedures is increasing
- Hospitals and diagnostic imaging centers were the major end-users, with breast and prostate biopsies among the most common procedures
- North America dominated the global market, buoyed by high healthcare spending and availability of advanced imaging systems

#### Key Developments:

- Introduction of advanced imaging techniques like fusion imaging and contrast-enhanced imaging for improved lesion visualization and targeting
- Adoption of artificial intelligence and real-time image guidance tools to enhance biopsy precision and accuracy
- Strategic partnerships between imaging system manufacturers and interventional device companies to develop integrated biopsy solutions

#### List of Image-guided Biopsy Companies Profiled in Report:

- Ethicon Endo-Surgery
- Intact Medical Corporation
- Galini SRL
- Hologic Inc.
- Leica Biosystems Nussloch GmbH
- C. R. Bard Inc.
- Becton and Dickinson Company
- Argon Medical Devices
- Cook Medical Incorporated
- Encapsule Medical Devices LLC

#### Image-guided Biopsy Industry Segmentation as Follows:

##### By Process:

- Vacuum Assisted Biopsy
- Core Needle
- Fine Needle

##### By Image Guided Technology:

- MRI
- Ultrasound

- Mammography
- CT
- X-Ray

By End User:

- Hospitals And Clinics
- Ambulatory Surgical Centers
- Research and Academic Institutes

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