

Vacuum-assisted Biopsy Devices Market By Product (Vacuum-assisted biopsy systems, Vacuum-assisted biopsy needles) , By Type (9-12G, <9G, >12G) By Technique (Ultrasound-guided biopsy, Stereotactic, Guided biopsy, MRI-guided biopsy, Others) By Application (Breast Biopsy, Lung Biopsy, Colorectal Biopsy, Colorectal Biopsy, Others) By End User (Hospitals, Academic and Research Institutes, Diagnostic and Imaging Centers, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

Market Report | 2024-07-01 | 280 pages | Allied Market Research

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Report description:

Vacuum-assisted Biopsy Devices Market

The vacuum-assisted biopsy devices market was valued at \$0.9 billion in 2023 and is projected to reach \$2.7 billion by 2033, growing at a CAGR of 11.7% from 2024 to 2033.

Vacuum-assisted biopsy devices are the medical tools used to procure tissue samples from a body organ for diagnostic purposes. The usage of vacuum-assisted devices over traditional biopsy methods enables the extraction of large and more contiguous tissue samples, thereby elevating the precision of histopathological analysis. Moreover, extraction through these devices remains minimally invasive as it involves a single incision performed under local anesthesia, hence reducing the discomfort of patients and speeding their recovery time.

Increase in the incidence of cancer, constant improvements in cancer diagnostics, and surge in preference for minimally invasive procedures are the key drivers of the vacuum-assisted biopsy devices market. Furthermore, rise in awareness among individuals pertaining to cancer has boosted the prevalence of screening tests and early diagnosis, thereby boosting the demand for

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vacuum-assisted biopsy devices. Currently, the use of vacuum-assisted biopsy device for the removal of benign breast tumor is an emerging trend. The device is proving to be advantageous in eradicating surgeries and enhancing precision in the examination process.

However, the cost of procuring the device is significantly high, particularly for small-scale medical facilities and hospitals in rural regions, hence restraining the growth of the market. Moreover, lack of flexibility in such devices leads to positioning limitations which limit their applicability. On the contrary, innovations in the design and features of vacuum-assisted biopsy devices present lucrative opportunities for market expansion. For instance, the integration of the device with advanced imaging techniques such as ultrasound and MRI is enhancing its applicability and accuracy through real-time supervision.

Segment Review

The vacuum-assisted biopsy devices market is segmented into product, type, technique, applications, end user, and region. By product, the market is bifurcated into vacuum-assisted biopsy systems and vacuum-assisted biopsy needles. As per type, it is divided into 9-12G, <9G, and >12G. Depending on technique, it is classified into ultrasound-guided biopsy, stereotactic, guided biopsy, MRI-guided biopsy, and others. According to application, it is categorized into breast biopsy, lung biopsy, colorectal biopsy, prostate biopsy, and others. On the basis of end users, it is segmented into hospitals, academic & research institutes, diagnostic & imaging centers, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By product, the vacuum-assisted biopsy needles segment dominated the market in 2023.

As per type, the 9-12G segment was the highest shareholder in 2023.

Depending on technique, the ultrasound-guided biopsy segment accounted for a high market share in 2023.

According to application, the breast biopsy segment was the highest shareholder in 2023.

On the basis of end user, the hospitals segment held a large market share in 2023.

Region wise, North America exhibits robust market growth.

Competition Analysis

The major players operating in the global vacuum-assisted biopsy devices market include Becton, Dickinson and Company, Cook Medical, Devicor Medical Products, Inc., Argon Medical., B. Braun Melsungen AG, Cardinal Health, Olympus Corporation, Boston Scientific Corporation, Medtronic Plc, and Inrad Inc. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the market.

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Key Market Segments

By Product

- Vacuum-assisted biopsy systems
- Vacuum-assisted biopsy needles

By Type

- 9-12G
- Less than 9G
- and12G

By Technique

- Ultrasound-guided biopsy
- Stereotactic
- Guided biopsy
- MRI-guided biopsy
- Others

By Application

- Breast Biopsy
- Lung Biopsy
- Colorectal Biopsy
- Colorectal Biopsy
- Others

By End User

- Hospitals
- Academic and Research Institutes
- Diagnostic and Imaging Centers
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- France
- UK
- Italy
- Spain
- Rest of Europe
- Asia-Pacific
- Japan
- China
- Australia
- India
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Brazil

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- Saudi Arabia
- South Africa
- Rest of LAMEA
- Key Market Players
- Becton, Dickinson and Company
- Cook Group
- Devicor Medical Products Inc
- Argon Medical Devices, Inc.
- B. Braun Melsungen AG
- Cardinal Health
- Olympus Corporation
- Boston Scientific Corporation
- Medtronic plc
- Inrad Inc

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