

Fusion Biopsy Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 to 2034

<https://marketpublishers.com/r/F23938A21B39EN.html>

Date: November 2024

Pages: 130

Price: US\$ 4,850.00 (Single User License)

ID: F23938A21B39EN

Abstracts

The Global Fusion Biopsy Market was valued at USD 829.1 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 9.9% from 2025 to 2034. The market's rapid expansion is driven by the increasing prevalence of prostate cancer, growing awareness of early detection, and supportive government policies and reimbursement programs.

Fusion biopsy combines MRI and ultrasound imaging to enhance diagnostic precision by targeting specific areas for biopsy. This advanced technique plays a crucial role in detecting prostate cancer, which is highly prevalent among older men. Conventional biopsy methods often lack the accuracy needed for early diagnosis, but fusion biopsy overcomes this limitation by providing clear, real-time images that guide the biopsy procedure. The method's precision is crucial for ensuring accurate diagnoses, reducing false negatives, and improving the management of prostate cancer, especially for patients undergoing active surveillance.

The market is divided into two main categories: devices and accessories. The devices segment, which includes MRI-ultrasound fusion systems, led the market with a revenue of USD 703.1 million in 2024. These systems are essential for improving diagnostic accuracy in prostate cancer detection, offering clinicians enhanced visibility and the ability to precisely guide biopsy procedures. As healthcare facilities increasingly focus on high-quality diagnostic tools, the demand for fusion biopsy devices continues to rise.

The procedure segment of the market is categorized into transrectal and transperineal approaches. The transrectal approach generated USD 677.6 million in 2024 and is expected to grow at a 9.6% CAGR between 2025 and 2034. This method is widely preferred for its ability to target specific lesions within the prostate with accuracy, thanks

to its established procedural framework and the familiarity of healthcare providers with its use.

Fusion biopsy is primarily used for prostate cancer diagnosis, although it also has applications in kidney cancer and other areas. The prostate cancer diagnosis segment generated the highest revenue in 2024, benefiting from improved detection rates and the growing emphasis on early screening and accurate diagnosis. This demand is further driven by heightened awareness campaigns aimed at encouraging early detection, which improves survival outcomes.

Hospitals are the dominant end users of fusion biopsy technology, with a market share supported by their advanced infrastructure and highly trained medical staff. These facilities are equipped with the necessary imaging technologies to perform accurate fusion biopsies, making them the preferred setting for these procedures.

The North America market is a key growth driver, contributing significantly to the global market revenue. The region's advanced healthcare infrastructure, coupled with high prostate cancer incidence rates, supports the growing adoption of fusion biopsy techniques as a standard diagnostic tool.

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