

# Ultrasound Needle Guides Market Size, Share & Trends Analysis Report By Type, By Application (Tissue Biopsy, Fluid Aspiration), By End Use (Hospitals & Clinics, Ambulatory Surgical Centers), By Region, And Segment Forecasts, 2025 - 2030

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## Abstracts

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### Ultrasound Needle Guides Market Growth & Trends

The global ultrasound needle guides market size is anticipated to reach USD 495 million by 2030, according to a new report by Grand View Research, Inc. The market is expected to advance at a CAGR of 4.0% from 2025 to 2030. Factors such as the increasing number of regulatory approvals for biopsy systems and novel product launches drive industry growth. As ultrasound-guided procedures become more widely used, there is a growing focus on training and educating healthcare professionals to ensure the safe and efficient use of these instruments. The creation of simulation tools and training programs is an aspect of this development.

Moreover, the increasing application of artificial intelligence in ultrasound devices boosts market growth. The use of AI and machine learning can improve the efficiency of ultrasonic needle guides. The overall success rates of treatments can be raised by using AI algorithms to help with real-time picture analysis, needle trajectory prediction, and automatic changes based on patient anatomy.

For instance, in July 2023, with the introduction of Sonosite ST, FUJIFILM Sonosite, Inc. added to its already expansive range of systems. It features a brand-new 21-inch touchscreen with an all-touch interface, a sizable image area of 10" by 7.5", automated setup customization for every test type, Auto Steep Needle Profiling, and more. To support system reliability, Sonosite ST also belongs to the identical series of transducers as Sonosite LX and Sonosite PX. For the most frequently performed

POCUS-guided procedures, such as vascular access in emergency medicine, nerve block delivery in regional anesthesia, and joint injections in musculoskeletal treatment, Sonosite ST offers optimum exam types.

Key industry players are involved in expanding their product portfolio with novel product launches, which boosts the market for ultrasound needle guides. For instance, in September 2022, by utilizing GE Healthcare's Vscan Air portable wireless ultrasound equipment, Intelligent Ultrasound introduced the 'NeedleTrainer 2', increasing the accessibility of ultrasound-guided needle training for medical practitioners. The live simulation tool 'NeedleTrainer' was created to help medical professionals learn coordination of the use of a needle and a probe during safe ultrasound-guided interventions.

The retractable needle used by NeedleTrainer can be used with computer-generated patches to simulate non-invasive needling on a live subject employing a live ultrasound scan. This makes it feasible for learners to practice ultrasound-guided interventional surgeries in a simulated clinical setting while improving their hand-eye coordination, appropriate placement, and accuracy without affecting patient care or endangering patient safety.

The increasing rate of regulatory approvals for biopsy systems drives industry growth. For instance, in October 2022, NeoDynamics AB, a medical device business specializing in cancer detection and treatment, launched the biopsy system 'NeoNavia', accompanied by the company's FlexiPulse probe, in the U.S. in order to assist in cancer diagnosis. The approval is expected to aid doctors in addressing critical issues that arise when treating and diagnosing breast cancer, including the precise identification of malignant tumors in the breast and their propagation outside of the breast.

The advantages associated with ultrasound-guided operations are becoming increasingly recognized by patients and healthcare professionals across the globe. Healthcare professionals are becoming more aware of the benefits of using ultrasound guidance to improve treatment results since patients frequently favor minimum invasive options.

#### Ultrasound Needle Guides Market Report Highlights

In 2024, the disposable segment dominated the market for ultrasound needle guides with a revenue share of 85.4%. In hospital settings, disposable needles are a vital part of infection control methods. They reduce the risk of infections brought on by needle reuse by doing away with the necessity for purification and disinfection.

Based on application, the regional anesthesia segment led the market with a

revenue share of 29.5% in 2024. Some well-known advantages of regional anesthesia include a lower chance of general anesthetic-related problems, shorter healing times, and better postoperative pain control

In terms of end-use, hospitals and clinics held a majority share of 41.6% of the market in 2024. Increasing number of patients being admitted to hospitals due to surgeries, therapies, and treatments is poised to drive the demand for ultrasound needle guides in the near future

North America led the market with the highest revenue share of 29.4% in 2024. Rising demand for minimally invasive surgeries and growing government initiatives to improve healthcare infrastructure in the region are the key factors driving market growth. In addition, technological advancements will create lucrative opportunities for the regional segment

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