

Spinal Needles Market Research Report by Type (Atraumatic Needles, Directional Spinal Needles, Pencil-point Needles), by Application (Therapeutic, Diagnostic), by End User (Hospitals & Clinics, Diagnostic Centers, Research Laboratories, Specialty Centers), and by Region (Americas, Europe, Asia Pacific, Middle East and Africa) Forecast till 2027

Market Report | 2025-08-17 | 114 pages | Market Research Future

AVAILABLE LICENSES:

- Single User Price \$4950.00
- Enterprisewide Price \$7250.00

Report description:

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Market Overview

The global spinal needles market is projected to reach USD 356.74 million by 2027, growing at a CAGR of 7.48% from 2021 to 2027. Spinal needles are specialized medical instruments used to deliver anesthesia or collect cerebrospinal fluid from the spinal canal. They are designed with a fine, hollow structure that allows precise access to the subarachnoid space while minimizing tissue damage. These needles play a vital role in procedures such as spinal anesthesia, diagnostic lumbar punctures, and intrathecal drug administration.

The global spinal needles market is greatly influenced by the increasing use of spinal needles in spine surgeries such as percutaneous vertebroplasty, kyphoplasty, spinal fusion, and interbody fusion. The major cause for the use of pencil-point needles for spinal anesthesia is the clinical advantages that they offer, and this trend continues to support the market demand. Ongoing clinical trials, technological developments, and government-supported R&D activities are the main factors behind the growing preference for minimally invasive surgical methods.

Key Company Development

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Medtronic plc has been able to expand its leadership in various types of spinal surgery. Among other things, in November of 2020, it bought the French company Medicea, an AI leader in spinal surgery planning, implants, and robotic-assisted procedures. Medtronic had already made an important investment in the field of spinal surgery with the acquisition of Titan Spine, an American company specializing in spinal implants and surface technology, in June 2019. These acquisitions are milestones in Medtronic's plan to bring enhanced precision, technology, and, most importantly, patient outcomes to the global spinal surgery market.

Major Players

Key players in the global spinal needles market are Stryker, Boston Scientific Corporation, B. Braun Melsungen AG, Medtronic Plc, Smiths Medical, Becton, Dickinson, and Company, EXELINT International, Co., Argon Medical, Myco Medical, and Cook Medical.

Report Attribute□Details

- Market Size 2020: USD 216.42 Million
- Market Size 2027: USD 356.74 Million
- CAGR (2021-2027): 7.48%
- Base Year: 2020
- Market Forecast Period: 2021-2027

Market Segmentations

- By Type: Atraumatic Needles - 7.33%, Directional Spinal Needles - 6.52%.
- By Application: Therapeutic - 7.87%, Diagnostic - 6.61%.
- By End User: Hospitals & Clinics - 8.39%, Diagnostic Centers - 7.54%.

Regional Insights

The Americas are the leading cause of the global market for spinal needles, as the disorders of the spinal cord and neurological diseases are widespread in this region and require both diagnostic and therapeutic interventions. At USD 20.54 million, Latin America reflects growing opportunities in underserved healthcare markets. Generating USD 67.54 million in 2020, North America dominates thanks to established players and continuous adoption of minimally invasive solutions.

Europe is the second-largest market for spinal needles. The continent, supported by its rapidly aging population and the increase of neurodegenerative disorders, depends to a large extent on government initiatives, healthcare reforms, and the research ecosystem that is funded by programs such as ERA-NET NEURON in the region. The European market reached USD 42.53 million in Western Europe and USD 14.68 million in Eastern Europe, highlighting regional disparities in adoption and investment.

Asia-Pacific is the region that develops the fastest, with the healthcare sector that makes a substantial investment, the infrastructure for clinical trials is being developed very rapidly, and supplies are plentiful. The research on spinal procedures is largely carried out by institutions such as universities and hospitals in countries like Pakistan, Korea, Taiwan, and Nepal. Asia-Pacific markets, China (USD 9.98 million), Japan (USD 7.09 million), and India (USD 8.25 million), are evolving rapidly with expanding clinical trials and rising healthcare spending.

The Middle East & Africa represent an emerging but relatively restricted market due to limited affordability and uneven healthcare access. However, rising healthcare investments in the Middle East and the establishment of diagnostic centers in Africa are boosting growth prospects. Hospitals like HJ Hospitals in DR Congo, equipped with advanced diagnostic facilities, are expanding access to spinal procedures.

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