

# **UAE Spine Surgery Market By Product (Spinal Fusion Devices, Spinal Decompression Devices, Non-Fusion Devices, Others), By Procedure (Discectomy, Laminotomy, Foraminotomy, Corpectomy, Facetectomy), By Region, Competition, Forecast & Opportunities, 2020-2030F**

<https://marketpublishers.com/r/UC9A60F6D6C3EN.html>

Date: February 2025

Pages: 85

Price: US\$ 3,500.00 (Single User License)

ID: UC9A60F6D6C3EN

## **Abstracts**

UAE Spine Surgery Market was valued at USD 126.54 Million in 2024 and is expected to reach USD 157.01 Million by 2030 with a CAGR of 3.86% during the forecast period. One of the key factors propelling the growth of the spine surgery market in the UAE is the rising incidence of spine-related disorders, attributed to the country's aging population and increasingly sedentary lifestyles. The UAE's expanding healthcare infrastructure, coupled with the government's commitment to providing high-quality care, has also fueled demand for advanced spinal surgeries. Furthermore, the growing awareness among patients about the benefits of early intervention and the availability of innovative surgical options is increasing the number of spine surgeries performed in the region.

The UAE's reputation as a leading destination for medical tourism is also contributing to the growth of the spine surgery market. The country attracts patients from across the Middle East, North Africa, and beyond, seeking world-class spine care. Many healthcare facilities in the UAE have forged partnerships with international specialists, ensuring that patients have access to the latest spinal surgical techniques and expert care. These collaborations have helped raise the standard of spine surgery in the country, positioning the UAE as a hub for advanced medical treatments.

Despite the growth, the UAE spine surgery market faces challenges, including the high

cost of advanced surgical technologies and the need for a highly skilled workforce to operate these complex systems. Additionally, while minimally invasive spine surgeries offer significant benefits, the initial costs of adopting such technologies can be a barrier for smaller healthcare facilities.

## Key Market Drivers

### Growth in Healthcare Industry

The growth in the healthcare industry is a key driver of the UAE spine surgery market, as advancements in medical infrastructure and the increasing demand for specialized healthcare services fuel the adoption of cutting-edge surgical procedures. All seven emirates provide healthcare services to their citizenry and are rapidly building their healthcare infrastructure inclusive of hospitals and clinics, while simultaneously developing their local workforce. In the U.A.E., there are five government healthcare regulators: the Ministry of Health, Ministry of Finance, Federal Health Insurance Authority, Dubai Health Authority, and the Health Authority Abu Dhabi. These entities regulate healthcare service providers on the ground such as the Abu Dhabi Health Services Company (SEHA).

The UAE's healthcare sector has been experiencing rapid expansion, driven by government initiatives, increased private investment, and a growing focus on providing high-quality medical care. This robust growth has created a favorable environment for the development of advanced surgical techniques, including spine surgeries, which are becoming increasingly vital in addressing the rising incidence of spinal disorders and injuries.

As the healthcare industry in the UAE expands, the demand for specialized treatments such as spine surgery is rising. Conditions like degenerative disc disease, herniated discs, and spinal deformities are becoming more prevalent due to factors such as an aging population, sedentary lifestyles, and increased awareness of spinal health issues. As a result, patients are seeking advanced surgical options to improve their quality of life, driving the spine surgery market forward. The UAE's state-of-the-art healthcare facilities are well-equipped to meet this demand, offering a range of minimally invasive and traditional spine surgeries that ensure better patient outcomes with reduced recovery times.

### Surge in Technological Advancements

The surge in technological advancements has become a pivotal driver of the UAE spine surgery market, revolutionizing surgical techniques and transforming patient care outcomes. Recently, an Emirati patient underwent two advanced minimally invasive surgeries at Sheikh Shakhbout Medical City (SSMC) to address severe back pain, enabling him to resume normal activities within 24 hours. SSMC, a leading healthcare facility in the UAE specializing in complex and critical care, is a collaborative partnership between Abu Dhabi Health Services Company (SEHA) and Mayo Clinic. The hospital employed cutting-edge surgical techniques that significantly shorten recovery times, even for intricate spinal procedures, to successfully treat the patient's debilitating back pain.

As the healthcare sector in the UAE embraces innovation, spine surgery has seen significant improvements in both procedural efficiency and precision, contributing to the growth of the market. In 2024, orthopedic specialists at Kalba Hospital, part of Emirates Health Services (EHS), pioneered a surgical technique to prevent paralysis in a patient who suffered an unstable spinal fracture after a fall from height. The procedure involved making skin incisions to insert rods directly through the skin. This accomplishment was made possible through the integration of advanced technology and the expertise of the medical team, ensuring the highest standards of patient care and treatment. These advancements have enabled healthcare providers to offer minimally invasive procedures, improved patient recovery times, and enhanced surgical accuracy, all of which have fueled the market's expansion.

Robotic-assisted surgery is another significant technological advancement contributing to market growth. Robotic systems enable spine surgeons to perform highly complex procedures with increased precision and control. These systems assist in preoperative planning, intraoperative guidance, and real-time feedback during surgeries, allowing for more accurate placement of instruments and implants. The use of robotics in spine surgery not only enhances surgical outcomes but also reduces the risks associated with human error, further driving demand for these advanced procedures in the UAE.

## Key Market Challenges

### High Costs of Advanced Technologies

One of the major challenges facing the UAE spine surgery market is the high cost of advanced technologies. While technological innovations in spine surgery, such as robotic-assisted systems, minimally invasive surgical tools, and advanced imaging techniques, have significantly improved patient outcomes, their adoption comes with

considerable financial implications. The initial investment required for these advanced systems is substantial, which presents a barrier for healthcare providers, especially smaller hospitals and clinics, looking to offer the latest spinal treatments.

The costs associated with acquiring and maintaining cutting-edge technologies are a key concern. Robotic-assisted spine surgery systems, for example, can cost millions of dirhams, not only for the initial purchase but also for ongoing maintenance, software updates, and training. Additionally, specialized imaging tools, such as intraoperative CT and MRI machines, require significant capital expenditure, which can strain the financial resources of healthcare institutions. These costs may ultimately affect the affordability and accessibility of advanced spine surgeries for a broader range of patients.

The high costs of these advanced technologies can limit their availability to patients, particularly in smaller or private healthcare facilities that may not have the budget to invest in such expensive equipment. Larger hospitals and specialized centers with more substantial financial resources are more likely to integrate these technologies into their operations, leading to a disparity in the availability of cutting-edge spine surgery options across the UAE. This could result in inequities in access to the best possible care, especially for patients seeking advanced treatments for complex spine conditions.

## Key Market Trends

### Increased Focus on Spine Regenerative Medicine

Increased focus on spine regenerative medicine is a significant trend shaping the UAE spine surgery market, as advancements in regenerative therapies offer promising alternatives to traditional surgical interventions. Regenerative medicine, which includes treatments such as stem cell therapy, platelet-rich plasma (PRP) injections, and gene therapy, is gaining traction in the UAE as a cutting-edge approach to managing spinal disorders and injuries. The RegeneSpine Regenerative Spine and Joint Institute provides Stem Cell and PRP treatments to patients located within a convenient flight distance from the United Arab Emirates (AE). Established with the aim of integrating cutting-edge minimally invasive spinal and musculoskeletal therapies with the latest advancements in regenerative medicine, the Institute is dedicated to helping patients achieve optimal outcomes without the need for surgery or long-term reliance on medication. This trend is particularly appealing in the context of the growing demand for minimally invasive and non-surgical treatment options that can enhance healing, reduce recovery times, and improve patient outcomes.

The UAE's healthcare sector has increasingly turned its attention to regenerative medicine as a viable solution for conditions like degenerative disc disease, spinal cord injuries, and other spine-related ailments. These therapies aim to stimulate the body's natural healing processes, promoting tissue regeneration and reducing the need for invasive surgeries. As patients become more aware of the potential benefits of regenerative treatments, they are seeking alternatives that not only provide relief but also support long-term spine health.

One of the key drivers of this trend is the UAE's commitment to becoming a global hub for medical innovation. Government initiatives and investments in healthcare infrastructure have accelerated the adoption of advanced treatments, including regenerative medicine, within the country. Leading hospitals and research institutions in the UAE are actively exploring the potential of regenerative therapies to offer more personalized, patient-centered care. This includes the use of stem cell injections for spinal disc regeneration and the application of PRP for tissue repair, providing patients with viable options to delay or avoid more invasive surgical procedures.

## Segmental Insights

### Product Insights

Based on Product, Spinal Fusion Devices have emerged as the fastest growing segment in the UAE Spine Surgery Market in 2024. One of the key drivers behind the rapid growth of spinal fusion devices is the increasing prevalence of spine-related health issues in the UAE. As the population ages and the incidence of conditions such as osteoarthritis, herniated discs, and scoliosis rises, the need for effective spine surgery solutions has grown significantly. Spinal fusion is often considered the gold standard for treating these conditions, particularly in cases where conservative treatments have failed. As a result, the demand for spinal fusion devices has surged, contributing to their dominance in the market.

Technological advancements in spinal fusion procedures have also played a pivotal role in the growth of this segment. The introduction of minimally invasive spine surgery (MISS) techniques has improved the outcomes and reduced the recovery time associated with spinal fusion surgeries. These advancements have made spinal fusion procedures more accessible and attractive to patients, as they offer reduced post-surgical pain and quicker recovery periods compared to traditional open surgery methods. Additionally, innovations in spinal fusion devices, such as the development of more advanced screws, rods, and interbody cages, have further enhanced the efficacy

and safety of these procedures, driving demand in the UAE market.

### Procedure Insights

Based on Procedure, Discectomy have emerged as the fastest growing segment in the UAE Spine Surgery Market during the forecast period. The rising incidence of spine-related conditions, particularly degenerative disc diseases and herniated discs, has contributed significantly to the growth of discectomy procedures in the UAE. As lifestyle-related factors such as sedentary habits, obesity, and aging populations lead to higher rates of disc herniation, discectomy has become a preferred treatment option due to its effectiveness in relieving pain and restoring mobility.

The growing adoption of minimally invasive surgical techniques has made discectomy a more attractive option for patients and healthcare providers alike. Minimally invasive discectomy offers several advantages over traditional open surgery, including smaller incisions, reduced trauma to surrounding tissues, faster recovery times, and lower risk of complications. These benefits have increased the procedure's popularity among both surgeons and patients, driving its growth in the market.

### Regional Insights

Based on Region, Dubai have emerged as the dominating region in the UAE Spine Surgery Market in 2024. Dubai boasts some of the most advanced healthcare facilities in the UAE and the wider Middle East. The city's hospitals and surgical centers are equipped with cutting-edge medical technologies, including state-of-the-art imaging systems and robotic-assisted surgical tools. This infrastructure enables the delivery of high-quality spine surgery, attracting both local and international patients.

Dubai has positioned itself as a prominent destination for medical tourism, particularly in specialized fields such as spine surgery. The city's world-class healthcare offerings, highly skilled surgeons, and availability of advanced surgical techniques make it a preferred choice for international patients seeking complex spine procedures. This influx of medical tourists further strengthens Dubai's dominance in the market.

### Key Market Players

Medtronic META FZ-LLC

Abbott Laboratories S.A.



Stryker ESCS BV

Boston Scientific Middle East FZ-LLC

Johnson & Johnson (Middle East) Inc.

## Report Scope

In this report, the UAE Spine Surgery Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

UAE Spine Surgery Market, By Product:

Spinal Fusion Devices

Spinal Decompression Devices

Non-Fusion Devices

Others

UAE Spine Surgery Market, By Procedure:

Discectomy

Laminotomy

Foraminotomy

Corpectomy

Facetectomy

UAE Spine Surgery Market, By Region:

Dubai

Abu Dhabi

Sharjah

Rest of UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the UAE Spine Surgery Market.

## Available Customizations:

UAE Spine Surgery Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).



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