

UAE Spine Surgery Market Assessment, By Products [Spinal Fusion Devices, Spinal Decompression Devices, Non-Fusion Devices, Others], By Surgery [Open Surgery, Minimally Invasive Surgery], By Disease Indication [Degenerative Disc Disease, Complex Deformity, Traumas and Fractures, Others], By Procedure [Discectomy, Laminotomy, Foraminotomy, Corpectomy, Facetectomy], By End-user [Hospitals, Ambulatory, Surgical Centers, Specialty Clinics, Others], By Region, Opportunities and Forecast, 2017-2031F

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Report description:

UAE spine surgery market is projected to witness a CAGR of 4.83% during the forecast period 2024-2031, growing from USD 191.69 million in 2023 to USD 282.27 million in 2031. The market's growth is boosted by the rising cases of degenerative disc disease, increasing adoption of advanced spine surgery techniques, and rising collaborations between healthcare providers in the country and key market players.

The rising investments towards adopting technologically advanced devices and solutions, including patient-specific implants, spinal navigation, 3D printing, and robotic surgeries, among others, are among the key UAE spine surgery market trends. Such technologies increase the feasibility of same-day spine surgeries and ensure minimal invasiveness, reducing blood loss and pain, which speeds up patient recovery. Additionally, advancements in imaging technologies such as CT scans and MRIs ensure detailed preoperative planning by aiding surgeons in accurately visualizing the anatomy of the spine. The adoption of spine surgery robots is also on the rise in the country as they provide increased accuracy and real-time navigation, which reduces the recovery time and complications during the procedure.

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Additionally, opening new healthcare facilities that provide specialized care for different conditions also supports the market's growth. In March 2022, the Neuro Spinal Hospital (NSH) inaugurated its new facility equipped with advanced technologies offering specialized care for orthopedic, neurosurgical, oncology, neurological, and spinal treatments. It features the country's first robotic Cyberknife radiosurgery center. The USD 8.3 million (Dh 700 million) facility is expected to boost healthcare innovation in the country.

Adoption of Advanced Spine Surgery Techniques Support Market Expansion

The rising investments towards providing advanced spinal surgery techniques at various healthcare facilities in the UAE are one of the major factors bolstering the UAE spine surgery market growth. One of the largest hospitals in the UAE for severe and complex care, Sheikh Shakhboub Medical City (SSMC), a joint venture between the Mayo Clinic and the Abu Dhabi Health Services Company (SEHA), uses advanced surgical techniques for treating severe back pain and reducing recovery time for complex spinal procedures. The Medical City is known for conducting complicated spine surgeries and procedures such as anterior cervical discectomy and fusion for removing a degenerative disc from the neck of the patient. The procedure requires the creation of an incision in the throat to remove the disc and inserting a graft to fuse the bones below and above the disc. The increasing efforts to ensure that patients are provided with medical care that caters to their unique and complex requirements support the market's growth in the UAE.

Increasing Cases of Degenerative Disc Disease Boosts Market Demand

The rising cases of degenerative disc disease in the country are propelling the demand for spine surgery in the UAE market. The disease results in the gradual wear of the spinal discs that act as spacers and shock absorbers; their degeneration often results in limited movement, pain, and stiffness. The available surgical options for the condition include artificial disc replacement, discectomy and fusion, and microdiscectomy. Due to the rising cases of the condition in the country, various hospitals, such as the Emirates Hospital Group, are providing both surgical and non-surgical options for managing the condition, thus positively influencing the expansion of the market in the UAE.

Growing Demand for Minimally Invasive Surgeries Aids Market Growth

The growing preference for minimally invasive spine surgeries in the country due to the rising awareness about their different advantages, including less pain post-surgery due to limited tissue and muscle damage, is expected to bolster the UAE spine surgery market demand. Minimally invasive procedures also allow surgeons to resolve various bulging spine issues easily. Hospitals and healthcare organizations are also increasingly investing in providing patients with advanced treatment solutions, including minimally invasive procedures, to improve treatment outcomes and enhance patient comfort and convenience. For instance, in February 2022, surgeons at the Medeor Hospital conducted a minimally invasive spine surgery to successfully remove a bulging disc and replace it with a titanium cage that was filled with bone graft. The surgery allowed the metal mesh to fuse with the cervical spine structure and eliminate any pain.

Hospitals Hold Significant Market Share

The rising investments by the hospitals in the country to ensure that their patients are provided with advanced services and equipment to reduce patient recovery time are boosting the UAE spine surgery market size. In June 2024, Reem Hospital in Abu Dhabi leveraged augmented reality (AR) navigation technology to address leg weakness and debilitating lower back pain because of spondylolisthesis. The AR navigation technology provides precise guidance to the surgeons, resulting in reduced risk of complications and shorter procedure time, which improves patient experience by ensuring better post-operative outcomes and quicker recovery time. The AR navigation technology's live feedback and real-time imaging also reduce invasiveness and showcase a paradigm shift in spinal surgery approaches, improving patient outcomes.

Future Market Scenario (2024-2031F)

- As per the UAE spine surgery market analysis, the market is expected to witness significant growth opportunities in the coming years due to the UAE's commitment to providing minimally invasive solutions and state-of-the-art healthcare to its patients.
- Robotic technology has been used in some spine surgery procedures to reduce their invasiveness and enhance precision, resulting in improved patient outcomes. Due to these benefits, the technology is expected to gain popularity in the UAE for spine surgeries. Other technologies, such as 3D printing, support the development of custom implants tailored to the patient's anatomy, leading to better post-operative results, which are also expected to gain momentum in the coming years.
- The increasing investments in the healthcare infrastructure and construction of world-class hospitals in the country are also

expected to bolster the market's expansion over the forecast period. The 2024 federal budget allocated USD 1.4 billion (Dh 5.2 billion), 8% of the total, to healthcare.

Key Players Landscape and Outlook

The rising investments in collaboration between key market players and leading healthcare providers in the UAE support the growth of the UAE spine surgery market. In March 2022, Globus Medical, Inc. partnered with Yas Clinic Group (YCG) to conduct the first robot-assisted spine surgery in the UAE. The YCG used Globus's ExcelsiusGPS technology, which was designed to optimize patient care and improve accuracy with the help of navigation and robotics. The medical images are imported into ExcelsiusGPS and used to determine the placement and size of the implants and guide the robotic arm toward the specific spine region.

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