

UAE Surgical Suture Market Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028

Segmented by Product Type (Automated Suturing Device, Suture Thread), By Application (Cardiovascular Surgery, General Surgery, Gynaecological Surgery, Orthopedic Surgery, Ophthalmic Surgery), By end User (Hospitals & Clinics, Ambulatory Care Centres, Others), by region, and Competition

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Abstracts

UAE Surgical Suture Market is anticipated to witness an impressive growth in the forecast period. Surgical sutures, commonly referred to as stitches, are medical devices used to close wounds or incisions made during surgical procedures. The primary purpose of surgical sutures is to approximate the edges of the wound and promote natural healing by holding tissues together until the wound can sufficiently mend. Sutures play a crucial role in various medical settings, including surgeries, wound closures, and certain medical procedures. Absorbable Sutures are sutures designed to be absorbed by the body over time. They are often used in internal tissues and eliminate the need for suture removal. Non-Absorbable Sutures are sutures that do not dissolve and may need to be removed manually after a certain period. They are commonly used in skin closures. Sutures are available in various sizes (gauges) to accommodate different tissue types and surgical requirements. Thicker sutures may be used for stronger tissues, while finer sutures are suitable for delicate tissues. Suture needles come in different shapes (e.g., straight, curved) and sizes. The choice of needle depends on the surgical technique and the type of tissue being sutured.

The rising number of surgical procedures, both elective and non-elective, contributes significantly to the demand for surgical sutures. Factors such as population growth, aging demographics, and advancements in surgical techniques drive the need for sutures across various medical specialties. Continuous innovations in suture materials and manufacturing technologies enhance the quality and performance of surgical sutures. Advanced suturing techniques, such as those involving automated suturing devices or bioabsorbable materials, contribute to market growth by offering improved outcomes and patient benefits. The increasing awareness and preference for minimally invasive surgical procedures drives the demand for specialized sutures suitable for these techniques. Minimally invasive surgeries often require unique suturing materials and devices. Government initiatives aimed at improving healthcare services and infrastructure play a crucial role in market development. Increased healthcare spending, regulatory support, and policies that promote the adoption of advanced medical technologies positively impact the surgical suture market.

Key Market Drivers

Technological Advancements

Polyglycolic Acid (PGA) and Polylactic Acid (PLA) materials break down naturally in the body over time, eliminating the need for suture removal and reducing the risk of complications. Sutures with antimicrobial coatings help prevent infections at the surgical site, reducing the risk of postoperative complications. Anti-inflammatory Coatings are designed to minimize inflammation at the wound site and contribute to improved healing outcomes. Bidirectional Barbed Sutures have small, corkscrew-like barbs that eliminate the need for traditional knots. They provide enhanced tissue closure and are often used in minimally invasive procedures.

Some sutures incorporate sensors or monitoring devices to provide real-time information about wound healing. This technology can alert healthcare providers to potential issues, such as infections or disruptions in the healing process.

Nanotechnology has been applied to create ultrafine fibers with improved strength and flexibility. Nanofiber sutures can enhance tissue adhesion and reduce tissue trauma. 3D printing allows the creation of customized sutures tailored to the specific needs of a surgical procedure. This technology enables the development of sutures with precise geometries and material compositions. Robotics in surgery have extended to suturing, with robotic systems assisting surgeons in performing precise and controlled suturing, particularly in minimally invasive procedures.

Automated Suturing Devices offer consistency and efficiency in suturing, reducing the manual workload on surgeons and ensuring uniform stitching. Polydioxanone (PDO) is a synthetic absorbable suture material that maintains its strength for an extended period, providing prolonged wound support. Polyethylene Glycol (PEG) are used in the development of sutures that minimize tissue trauma and inflammation. Sutures with radiopaque markers enhance visibility during imaging procedures such as X-rays, aiding in the accurate assessment of suture placement. Sutures with electroactive properties may facilitate electrical stimulation of tissues, potentially promoting enhanced healing and tissue regeneration. This factor will help in the development of the UAE Surgical Suture Market.

Increasing Surgical Procedures

The overall growth of the population, combined with aging demographics, leads to an increased incidence of medical conditions that often require surgical intervention. As people age, they are more likely to develop health issues necessitating surgical procedures. Continuous advancements in surgical techniques have expanded the scope of surgical procedures. New and innovative procedures, including minimally invasive and robotic-assisted surgeries, contribute to a broader range of cases requiring sutures. The rising prevalence of chronic diseases, such as cardiovascular disorders, diabetes, and certain cancers, often requires surgical interventions for diagnosis, treatment, or management. This contributes to the growing demand for surgical sutures.

Improvements in healthcare infrastructure and increased access to medical services mean that more individuals can undergo surgical procedures when needed. This accessibility drives the overall volume of surgeries. The growing popularity of minimally invasive surgeries, such as laparoscopic and endoscopic procedures, has led to an increase in the number of surgeries performed. These procedures often involve the use of specialized sutures suitable for minimally invasive techniques. The aging population, coupled with an active lifestyle, has contributed to an increase in orthopedic surgeries, including joint replacements. These procedures often require the use of sutures for wound closure. Traumatic injuries, accidents, and emergencies necessitate surgical interventions for prompt treatment. These cases contribute to the demand for surgical sutures in emergency departments and trauma centers.

The growing acceptance and popularity of elective cosmetic and plastic surgeries contribute to the overall demand for surgical sutures. These procedures often involve aesthetic suturing techniques for optimal outcomes. Gynecological and obstetric surgeries, including cesarean sections and other procedures, contribute to the demand

for sutures. The overall rate of childbirth and related surgeries influences market growth. Surgical interventions are common in the diagnosis and treatment of various types of cancer. Cancer surgeries, such as tumor removal and lymph node dissection, contribute to the demand for surgical sutures. This factor will pace up the demand of the UAE Surgical Suture Market.

Rising Awareness of Minimally Invasive Procedures

Minimally invasive procedures involve smaller incisions compared to traditional open surgeries. As a result, the demand for sutures that are specifically designed for closing smaller wounds or incisions increases. Minimally invasive techniques are known for causing less trauma to surrounding tissues. Sutures used in these procedures need to be finer and more delicate to minimize tissue damage and promote faster healing. Patients undergoing minimally invasive surgeries often experience faster recovery times compared to traditional open procedures. Sutures used in these surgeries should support quick and efficient wound closure to align with the goal of accelerated recovery. The demand for specialized suture materials, such as absorbable and biodegradable sutures, is higher in minimally invasive procedures. These materials reduce the need for suture removal and are well-suited for the nature of these surgeries.

As awareness of minimally invasive techniques grows, so does the demand for advanced suturing technologies. Innovations such as barbed sutures, robotic-assisted suturing devices, and other technological advancements cater to the unique requirements of minimally invasive procedures. Minimally invasive procedures are often chosen for cosmetic and aesthetic purposes, such as facelifts or body contouring. Sutures used in these procedures must provide excellent cosmetic outcomes, contributing to the demand for high-quality sutures. Surgeons who are trained in minimally invasive techniques may have specific preferences for sutures that align with these procedures. The demand for sutures that facilitate precise and efficient closure is influenced by the preferences of surgeons practicing minimally invasive surgery.

Patients are increasingly informed about medical procedures and often express preferences for minimally invasive options when available. This awareness contributes to the overall growth in the number of minimally invasive surgeries and, consequently, the demand for appropriate sutures. Minimally invasive techniques are being applied to a growing range of medical specialties. The demand for specialized sutures extends beyond traditional surgical fields, encompassing areas such as gynecology, urology, and orthopedics. Manufacturers in the surgical suture market respond to the demand for minimally invasive procedures by developing and offering sutures that cater to the

unique requirements of these surgeries. This market competitiveness drives innovation and diversification in suture products. This factor will accelerate the demand of the UAE Surgical Suture Market.

Key Market Challenges

Intense Competition

The market for surgical sutures often features multiple manufacturers and suppliers, leading to a competitive environment. These companies may vary in size, resources, and product offerings, creating a diverse and competitive landscape. Manufacturers strive to differentiate their products by incorporating advanced features, innovative technologies, or unique materials. However, achieving meaningful product differentiation can be challenging, especially with similar types of products available in the market. Continuous technological advancements in suture materials, coatings, and manufacturing processes drive competition. Companies need to invest in research and development to stay ahead in terms of innovation and offer products with improved performance. Intense competition can sometimes lead to price wars, where companies lower their prices to gain market share. While this may benefit buyers in the short term, it can impact the profitability and sustainability of companies in the long run. Both global and local players may operate in the UAE Surgical Suture Market. Global companies may have the advantage of scale and established reputations, while local players may have a better understanding of regional preferences and regulatory environments. Building and maintaining customer loyalty can be challenging in a highly competitive market. Customers may switch between brands based on factors such as pricing, product features, and customer service, making it essential for companies to focus on customer satisfaction. The market may reach a point of saturation where the demand for surgical sutures becomes relatively stable. In such a scenario, gaining market share from competitors becomes more challenging, and companies must explore new avenues for growth.

Rising Raw Material Costs

Surgical sutures are manufactured using various materials such as absorbable and non-absorbable polymers (e.g., polyglycolic acid, polydioxanone, silk, nylon). The dependence on specific materials makes the industry susceptible to fluctuations in the prices of these raw materials. Many modern sutures are made from synthetic polymers. The prices of these polymers, such as polyglycolic acid and polydioxanone, can be influenced by factors like petroleum prices, as these polymers are derived from

petrochemical sources. Raw material costs can be influenced by global economic factors, geopolitical events, and market dynamics. Political instability, trade tensions, and other global events can contribute to fluctuations in the prices of raw materials used in surgical sutures. Disruptions in the supply chain, whether due to natural disasters, pandemics, or geopolitical issues, can impact the availability and cost of raw materials. This can create uncertainty and challenges in maintaining a stable supply of surgical sutures. Innovations in suture materials and manufacturing processes often require research and development investments. These expenses can contribute to overall costs, and when combined with rising raw material prices, they pose challenges to maintaining product affordability. Companies in the surgical suture market may face pressure on their profit margins when confronted with increasing raw material costs. Balancing the need for competitive pricing with maintaining profitability becomes a delicate task.

Key Market Trends

Focus on Infection Control

The demand for sutures with antimicrobial properties has increased. Antimicrobial coatings, such as those containing silver or other agents, are designed to reduce the risk of surgical site infections (SSIs) by inhibiting the growth of bacteria on the suture material. Infection control measures are critical in reducing healthcare-associated infections, including SSIs. Sutures that contribute to aseptic wound closure play a vital role in minimizing the risk of infections, particularly in surgical procedures. Healthcare providers and surgical teams are increasingly adopting best practices in infection control. This includes the selection of surgical sutures that adhere to the highest standards of sterility and are designed to minimize the risk of bacterial contamination. Hospitals and healthcare facilities prioritize patient safety, and infection control is a key component of ensuring positive surgical outcomes. The selection of appropriate sutures is part of a comprehensive approach to reduce the incidence of infections in surgical patients. Regulatory bodies and health authorities often emphasize the importance of infection control in healthcare settings. Adherence to regulatory guidelines encourages the use of sutures that contribute to infection prevention and control. Healthcare professionals, including surgeons and nurses, are increasingly educated on the latest infection control measures. This education extends to the selection of medical products, such as sutures, that align with best practices in preventing surgical site infections.

Segmental Insights

Type Insights

In 2022, the UAE Surgical Suture Market largest share was held by Automated Suturing Device segment and is predicted to continue expanding over the coming years. Automated suturing devices are designed to offer efficiency and precision in the suturing process. The use of these devices can lead to faster and more accurate suturing, reducing the time required for surgical procedures. Surgeons may prefer these devices for their ability to enhance overall procedural efficiency. The trend toward minimally invasive surgical procedures has increased the adoption of automated suturing devices. These devices are often well-suited for minimally invasive techniques, contributing to their prominence in the market. Automated suturing devices are designed to minimize tissue trauma during the suturing process. This can result in faster patient recovery times and reduced postoperative complications, making them a preferred choice for surgeons. Automated suturing devices provide consistent and standardized suture placement, reducing the variability that can occur with manual suturing. This consistency is crucial in achieving optimal wound closure and healing. Ongoing advancements in the technology of automated suturing devices, such as the development of robotic-assisted systems, may contribute to their increased adoption. Surgeons may be inclined to use the latest technological innovations to improve patient outcomes.

Application Insights

In 2022, the UAE Surgical Suture Market largest share was held by Cardiovascular Surgery segment and is predicted to continue expanding over the coming years. Cardiovascular surgeries, including procedures such as open-heart surgery and vascular interventions, are intricate and often require specialized sutures. The complexity of these surgeries may lead to a higher demand for advanced and specialized sutures designed for cardiovascular applications. Cardiovascular diseases are among the leading causes of morbidity and mortality worldwide, including in the UAE. The high incidence of cardiovascular conditions may result in a greater number of cardiovascular surgeries, thereby increasing the demand for surgical sutures in this segment. Cardiovascular surgeries frequently involve vascular procedures that demand specific types of sutures. Sutures designed for use in vascular surgeries need to meet stringent requirements, such as strength, flexibility, and biocompatibility, contributing to their prominence in the market. Advances in cardiovascular surgery techniques and technologies may lead to the development of new and improved surgical sutures. Surgeons in the cardiovascular field may prefer using the latest and most technologically advanced sutures, influencing the market share of this segment. The

increasing adoption of minimally invasive cardiac interventions, such as angioplasty and stent placement, may contribute to the demand for specialized sutures. These procedures may require sutures designed for precise and delicate work.

End-User Insights

In 2022, the UAE Surgical Suture Market largest share was held by Hospitals & Clinics segment in the forecast period and is predicted to continue expanding over the coming years. Hospitals and clinics generally handle a significant volume and variety of surgical procedures. As these facilities cater to a diverse range of medical conditions and patient needs, the demand for surgical sutures is naturally higher. Hospitals and clinics provide a wide range of healthcare services, including both elective and non-elective surgeries. The comprehensive nature of these facilities results in a continuous and substantial demand for surgical sutures. Hospitals often perform advanced and complex surgical procedures that require specialized sutures. The demand for high-quality and technologically advanced sutures is more pronounced in hospital settings, where surgeons may need specific products for intricate surgeries. Hospitals handle both inpatient and outpatient services, covering a broad spectrum of medical interventions. Surgical sutures are a fundamental component of various surgical procedures, contributing to their higher consumption in hospital settings. Hospitals are primary providers of emergency medical services. In emergency situations, prompt and effective wound closure is crucial, leading to an increased demand for surgical sutures. This is particularly relevant in hospital emergency departments.

Regional Insights

The Abu Dhabi region dominates the UAE Surgical Suture Market in 2022. Abu Dhabi region has a well-established and advanced healthcare infrastructure, including hospitals, clinics, and surgical centers, it could contribute to a higher demand for surgical sutures. The population size and demographics of the Abu Dhabi region may play a role. Higher population density or a population with a higher incidence of surgical procedures can lead to increased demand for medical supplies, including surgical sutures. Abu Dhabi is home to specialized medical facilities that attract patients from across the UAE and even internationally. This could result in a higher concentration of surgical procedures and, consequently, a greater demand for surgical sutures. Economic factors, such as higher income levels in the Abu Dhabi region, may influence the ability of healthcare facilities and individuals to invest in advanced medical treatments, leading to a higher consumption of surgical sutures. Government initiatives and policies that promote healthcare development and investment in the Abu Dhabi

region could positively impact the surgical suture market. Supportive regulations and funding for healthcare infrastructure contribute to market growth.

Key Market Players

Johnson & Johnson (Ethicon, Inc.)

Medtronic Meta FZ-LLC

B. Braun Medical Gulf FZ-LLC

Stryker ESCS BV

Zimmer Biomet UAE

Smith & Nephew FZE

Boston Scientific Corporation UAE

Apple Med Trading L.L.C

Report Scope:

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

Surgical Suture Market, By Type:

Automated Suturing Device

Suture Thread

Surgical Suture Market, By Application:

Cardiovascular Surgery

General Surgery

Gynaecological Surgery

Orthopedic Surgery

Ophthalmic Surgery

Surgical Suture Market, By End-User:

Hospitals & Clinics

Ambulatory Care Centers

Others

Surgical Suture Market, By region:

Dubai

Abu Dhabi

Sharjah

Rest of UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the UAE Surgical Suture Market.

Available Customizations:

UAE Surgical Suture Market report with the given market data, Tech Sci 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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