

Vietnam Surgical Suture Market By Type (Automated Suturing Devices, Suture Thread), By End User (Hospitals & Clinics, Ambulatory Care Centers, Others) and By Region, Competition, Forecast & Opportunities, 2018-2028F

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Abstracts

The Vietnam Surgical Suture Market, valued at USD 34.52 million in 2022, is poised to experience significant growth in the forecast period, expected to achieve an impressive CAGR of 6.00% through 2028. Surgical sutures, commonly known as stitches, are crucial medical devices used for the closure of wounds, incisions, or surgical openings within the body. They play a pivotal role in the healing process and are integral to various surgical and medical procedures.

Surgical sutures are typically crafted from diverse materials, each possessing unique properties tailored to different surgical requirements. They are available in various sizes, denoted by numerical values, where higher numbers indicate smaller sutures. The selection of suture size is contingent on multiple factors, including the type of tissue being sutured, the location of the wound, and the surgeon's preferences.

The choice of suture materials hinges on their compatibility with the specific tissue being sutured. Some tissues necessitate sutures that minimize irritation or inflammation, while others demand robust sutures to provide support during the healing process. Furthermore, there are specialized sutures engineered to cater to distinct surgical applications. For instance, sutures used in cardiovascular surgery differ from those employed in ophthalmic surgery, aligning with the unique requirements of each surgical specialty.

The escalating population, coupled with demographic aging, has led to an upsurge in

surgical procedures. Continuous innovations in suture materials and technology have resulted in the development of more efficient, biocompatible, and specialized sutures. This includes absorbable sutures, antimicrobial-coated sutures, and sutures tailored for specific surgical contexts.

The growing trend towards minimally invasive surgical techniques, such as laparoscopy and robotic-assisted surgery, has heightened the demand for sutures compatible with these procedures. Specialized sutures designed for minimally invasive surgery have thus become indispensable.

In Vietnam, the demographic shift towards an aging population has contributed to heightened surgical requirements. Older individuals frequently necessitate more surgical procedures, thereby driving the demand for surgical sutures. Additionally, the increasing prevalence of chronic ailments like diabetes and cardiovascular conditions has led to a surge in surgical interventions, further bolstering the need for surgical sutures.

Key Market Drivers

Advancements in Suture Technology

Advancements in suture technology have led to the development of more efficient, biocompatible, and specialized sutures. These innovations aim to improve patient outcomes, reduce complications, and enhance the overall surgical experience. Absorbable sutures are designed to break down and be absorbed by the body over time. They eliminate the need for suture removal, reducing patient discomfort and the risk of infection. Different types of absorbable sutures are available, including those made from materials like polyglycolic acid (PGA), polylactic acid (PLA), and polydioxanone (PDO). Sutures can be monofilament (single-stranded) or multifilament (composed of multiple strands). Monofilament sutures are smoother, cause less tissue trauma, and are associated with reduced infection risk. Multifilament sutures provide better handling characteristics. Barbed sutures have small, backward-facing barbs or notches that allow for easier and more secure tissue approximation. They are often used in minimally invasive procedures and can eliminate the need for knots. These sutures are coated with antimicrobial agents such as triclosan or chlorhexidine to reduce the risk of surgical site infections. Antimicrobial sutures can be particularly beneficial in high-risk surgeries.

Some surgical procedures require sutures with high tensile strength to withstand tension

and stress on the wound site. These sutures are often made from materials like polypropylene or polyester. Manufacturers have developed specialized sutures for specific surgical applications. For example, sutures designed for cardiovascular surgery are different from those used in ophthalmic procedures. Specialized sutures meet the unique demands of each surgical specialty. Sutures designed for minimally invasive procedures, such as laparoscopy and robotic-assisted surgery, are thinner and more flexible. They allow for precise suturing in confined spaces. To address environmental concerns, some companies are developing biodegradable sutures that break down naturally over time. These sutures reduce the environmental impact of medical waste. Nanotechnology has been applied to sutures to enhance their properties. Nanoscale coatings and materials can improve suture strength, antimicrobial properties, and tissue interaction. Color-coded sutures make it easier for surgeons to identify the type of suture material and size, reducing the risk of errors during surgery. Some sutures are equipped with imaging or tracking features, such as radio-opaque markers or RFID tags. These technologies help surgeons monitor the suture's position and tension during and after surgery. Advances in 3D printing and manufacturing technologies have enabled the creation of customized sutures tailored to the specific needs of a patient or procedure. This factor will help in the development of Vietnam Surgical Suture Market.

Growth in Aging Population

Aging is often accompanied by a higher likelihood of chronic medical conditions, degenerative diseases, and age-related health issues. Many of these conditions require surgical interventions. As individuals age, they are more likely to undergo surgeries such as joint replacements, cardiac procedures, and cancer treatments, all of which require the use of surgical sutures. Older individuals tend to have more complex health needs, often requiring a combination of medical treatments and surgical interventions. The management of these complex health conditions often involves surgery for diagnosis, treatment, or symptom relief, contributing to the demand for surgical sutures. Aging is associated with a higher prevalence of orthopedic problems, such as osteoarthritis and fractures. Joint replacements (e.g., hip and knee replacements) are common procedures in the elderly population, and they rely on surgical sutures for wound closure.

Older adults are more susceptible to cardiovascular diseases, and many require surgical procedures such as bypass surgery, valve replacements, or stent placements. These procedures involve the use of sutures for vascular repair and closure. The risk of cancer increases with age, and cancer treatments often involve surgery to remove tumors or perform reconstructive procedures. Surgical sutures are essential for closing

incisions and promoting wound healing. Aging can lead to delayed wound healing and compromised tissue integrity. Surgical sutures play a crucial role in wound closure and tissue repair, helping to minimize complications in elderly patients. Older adults may require emergency surgeries due to conditions like acute appendicitis, bowel obstructions, or traumatic injuries. These surgeries often involve the use of sutures for tissue closure and repair. Falls and accidents are more common among older adults and can result in fractures and other injuries that require surgical treatment, further contributing to the demand for sutures. The aging population is diverse, and individuals may require a wide range of surgical procedures based on their specific health conditions and medical history. This diversity in surgical needs drives the overall demand for surgical sutures. As healthcare systems adapt to the needs of an aging population, they invest in advanced medical technologies and surgical techniques. This includes the use of advanced sutures and wound closure methods to ensure optimal outcomes for elderly patients. This factor will pace up the demand of Vietnam Surgical Suture Market.

Rising Chronic Diseases

Chronic diseases encompass a broad range of long-term medical conditions, such as diabetes, cardiovascular disease, cancer, and autoimmune disorders. Many chronic diseases require surgical interventions as part of their treatment or management. For example, patients with advanced cardiovascular disease may need coronary artery bypass graft surgery, while cancer patients may require tumor removal surgeries. These surgical procedures often involve the use of surgical sutures for tissue closure and wound healing. Chronic diseases can lead to complications that necessitate surgical procedures. For instance, diabetic patients may develop foot ulcers that require surgical debridement and suturing to promote healing and prevent infection. The progression of chronic diseases can also lead to the need for surgical interventions over time. Chronic conditions like osteoarthritis often result in the need for joint replacement surgeries, such as hip or knee replacements. These orthopedic procedures involve the use of surgical sutures for closing incisions and promoting postoperative healing. Cancer is a chronic disease characterized by the uncontrolled growth of abnormal cells. Surgical removal of tumors, lymph nodes, or affected tissues is a common treatment approach. Surgical sutures play a crucial role in closing incisions after cancer surgeries.

Chronic conditions like Crohn's disease and ulcerative colitis, which fall under the category of inflammatory bowel diseases, may require surgical interventions such as bowel resections or ostomy procedures. Sutures are used for tissue repair and anastomosis in these surgeries. Chronic diseases can affect the body's ability to heal

wounds properly. Patients with diabetes, for example, are prone to delayed wound healing, making surgical sutures essential for closing incisions and surgical wounds to minimize complications. Chronic conditions such as atherosclerosis can lead to the narrowing or blockage of blood vessels. Vascular surgeries like angioplasty or bypass procedures are performed to restore blood flow. Surgical sutures are used to secure grafts and repair blood vessels. Patients with rheumatoid arthritis may require joint surgeries to alleviate pain and restore function. These surgeries often involve sutures for wound closure and tissue repair. Some chronic autoimmune disorders, such as lupus, can lead to organ damage that may require surgical interventions. Sutures are used in various surgical procedures related to these conditions. Chronic gastrointestinal conditions, including gastroesophageal reflux disease (GERD) and diverticulitis, may require surgical treatments. Surgical sutures are essential for closing incisions in these procedures. This factor will accelerate the demand of Vietnam Surgical Suture Market.

Key Market Challenges

Rising Competition

Intense competition often leads to price pressure as manufacturers attempt to offer more competitive pricing to attract customers. This can result in lower profit margins for suture manufacturers. To stay competitive, manufacturers must continually invest in research and development to innovate and differentiate their products. This can be costly and requires a commitment to ongoing product improvement. Differentiating suture products from competitors can be challenging, as many sutures serve similar purposes. Manufacturers must find ways to offer unique features or benefits to stand out in the market. Manufacturers need to invest in effective marketing and sales strategies to reach and maintain relationships with healthcare providers and facilities. Competition often requires increased marketing efforts. Hospitals and healthcare facilities may have the leverage to negotiate pricing and terms with suture manufacturers due to competition. Manufacturers must be prepared for negotiations that can affect their bottom line. In some regions or product segments, the market may become saturated with competitors, making it difficult for new entrants or smaller manufacturers to gain a foothold. Larger companies may engage in mergers and acquisitions to consolidate their market position or expand their product portfolios. This can create a more challenging competitive landscape for smaller manufacturers.

Price Pressure and Cost Containment

Healthcare facilities, including hospitals and clinics, often seek competitive pricing for

surgical supplies, including sutures. Manufacturers face pressure to offer their products at competitive prices while maintaining their profit margins. Group Purchasing Organizations negotiate contracts with manufacturers on behalf of healthcare facilities to secure lower prices for medical supplies, including surgical sutures. These negotiations can put downward pressure on prices. Changes in healthcare reimbursement models can affect the financial viability of healthcare providers. Hospitals and clinics may look for ways to control costs, including the cost of surgical supplies like sutures. Patients are becoming more cost-conscious, especially in regions with high out-of-pocket healthcare expenses. They may inquire about the cost of medical procedures and supplies, including sutures, leading to discussions about cost containment. Some healthcare systems are exploring sustainable practices, which may include cost-effective sourcing of eco-friendly sutures. Balancing cost savings with sustainability goals can be a challenge for providers. The availability of generic surgical sutures can exert downward pricing pressure on brand-name sutures. Healthcare providers may opt for cost-effective generic options.

Key Market Trends

Rising Demand for Minimally Invasive Surgery

Minimally invasive procedures often require sutures that are designed for these techniques. These sutures are typically smaller in size, have greater flexibility, and may incorporate unique features to facilitate suturing in confined spaces. As the demand for MIS grows, manufacturers have developed sutures specifically tailored for these procedures. Minimally invasive surgery is associated with reduced tissue trauma compared to traditional open surgery. Smaller incisions lead to less tissue damage, less pain, and faster recovery. Surgical sutures play a crucial role in closing these smaller incisions, ensuring proper wound healing and minimizing the risk of complications. Patients undergoing minimally invasive procedures often experience shorter hospital stays and faster recovery times compared to open surgery. This trend contributes to the overall increase in the number of minimally invasive surgeries and the demand for sutures for these procedures. Advancements in laparoscopic and robotic-assisted surgery have expanded the range of procedures that can be performed minimally invasively. These technologies require specialized suturing techniques and materials, further boosting demand in the surgical suture market. Minimally invasive techniques are widely used in cosmetic and aesthetic surgery, such as facelifts and liposuction. Sutures are essential for achieving precise and aesthetically pleasing results in these procedures.

Segmental Insights

Type Insights

In 2022, the Vietnam Surgical Suture Market largest share was held by Automated Suturing Devices segment in the forecast period and is predicted to continue expanding over the coming years. Automated suturing devices offer precise and consistent suturing, reducing the risk of human error during the suturing process. This can lead to better wound closure outcomes and lower rates of complications, making them a preferred choice for many surgeons. The rise in minimally invasive surgical techniques, such as laparoscopic and robotic-assisted surgeries, has increased the demand for automated suturing devices. These devices are well-suited for minimally invasive procedures where precision and manoeuvrability are critical. Surgeons and surgical staff can experience hand fatigue during lengthy surgeries when using manual suturing techniques. Automated suturing devices can reduce this fatigue, allowing for more comfortable and sustained performance. Automated suturing devices are versatile and can be used in a wide range of surgical specialties, including general surgery, gynaecology, urology, and cardiovascular surgery. Their adaptability makes them attractive to healthcare facilities offering various types of surgeries.

End-user Insights

In 2022, the Vietnam Surgical Suture Market dominated by hospital & clinics segment and is predicted to continue expanding over the coming years. Hospitals and clinics are the primary settings for surgical procedures. They handle a vast number of surgeries daily, ranging from routine procedures like appendectomies and hernia repairs to complex surgeries such as cardiac surgeries and organ transplants. Each of these surgeries typically requires the use of surgical sutures for wound closure. Hospitals and clinics encompass a wide range of medical specialties, including general surgery, orthopaedics, gynaecology, neurosurgery, cardiovascular surgery, and more. Each specialty may require specific types of sutures tailored to the needs of the procedure. This diversity in medical specialties drives the demand for various types of surgical sutures. Advancements in surgical techniques and technology often occur first in hospital settings. These innovations can lead to the development of specialized sutures or the adoption of new suture materials, further driving demand within the hospital and clinic segment.

Regional Insights

The Central Vietnam region dominates the Vietnam Surgical Suture Market in 2022. Because of the existence of local and important companies, the high cost of sutures relative to other locations, the favorable reimbursement environment, the growth of government programs, and the developed healthcare infrastructure. The significant revenue share of Central Vietnam is also largely due to technological improvements and strong domestic wealth.

Northern Vietnam is expected to witness the fastest growth during the forecast period. This is because there are more elderly people, who are more prone to need surgery, and because the government is spending more money on the healthcare system to address the unmet needs in this area. Another significant driver propelling the market in this area towards exponential growth is the rise of medical tourism in cities like Hanoi, Hai Phong, and Ninh Binh.

Key Market Players

CPT Sutures Co., Ltd.

USM Healthcare

Medical Devices and Biomaterial Plant Joint Stock Company (MEDEP)

Medtronic Vietnam

Johnson & Johnson Vietnam

Stryker Vietnam

B.Braun Vietnam Co., Ltd.

Smith & Nephew Vietnam

Pinnacle Health Co., Ltd.

Report Scope:

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

Vietnam Surgical Suture Market By Type (Automated Suturing Devices, Suture Thread), By End User (Hospitals & C...

Surgical Suture Market, By Type:

Automated Suturing Devices

Reusable

Disposable

Suture Thread

Monofilament

Multifilament

Surgical Suture Market, By End User:

Hospitals & Clinics

Ambulatory Care Centers

Others

Vietnam Surgical Suture Market, By region:

Northern Vietnam

Southern Vietnam

Central Vietnam

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Vietnam Surgical Suture Market.

Available Customizations:

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

Vietnam Surgical Suture Market By Type (Automated Suturing Devices, Suture Thread), By End User (Hospitals & C...

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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