

UAE Stent Market Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented by Product Type (Vascular Stents {Coronary Stents, Peripheral Stents, Neurovascular Stents}, Non-Vascular Stents {Gastrointestinal Stents, Urological Stents, Pulmonary (Airway) Stents}), By Material Type (Metal, Polymer), By Type (Balloon Expandable, Self-Expandable), By End User (Hospitals & Clinics, Ambulatory Care Centers, Others), by region, and Competition

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Abstracts

UAE Stent Market is anticipated to witness an impressive growth in the forecast period. A stent is a medical device used to support or reinforce a tubular structure within the body, typically a blood vessel or a duct. Stents are commonly employed in various medical procedures to treat conditions that involve the narrowing or blockage of these tubular structures. The primary purpose of a stent is to maintain the patency (openness) of the vessel or duct, allowing for the unobstructed flow of fluids such as blood or bile. Stents are often mesh-like, or tube-like structures made from materials such as metal (commonly stainless steel or cobalt-chromium alloys), polymers, or a combination of both. The design and composition can vary based on the specific medical application. One of the most common uses of stents is in the cardiovascular system to treat conditions like coronary artery disease. In these cases, a vascular stent is placed to open narrowed or blocked blood vessels. There are different types of vascular stents, including bare-metal stents and drug-eluting stents (coated with medications to prevent restenosis). Stents are used in the bile ducts to treat obstructions or strictures. Biliary

stents help in maintaining the flow of bile from the liver to the small intestine and are often used in conditions such as bile duct cancers or gallstone-related obstructions.

The aging population in the UAE is associated with an increased risk of cardiovascular diseases. As the population ages, there is a higher likelihood of individuals requiring stent procedures, thereby driving market growth. Ongoing advancements in stent technologies, including the development of drug-eluting stents, bioresorbable stents, and other innovative designs, can drive market growth. Healthcare providers and patients often seek the latest and most advanced treatment options. A rise in healthcare expenditure, both by the government and private sectors, can positively impact the adoption of advanced medical technologies, including stents. Increased investment in healthcare infrastructure and services can contribute to market growth. Growing awareness among healthcare professionals and the general population about cardiovascular health, preventive measures, and available treatment options can lead to earlier diagnosis and intervention, boosting the demand for stents. Government initiatives aimed at improving healthcare infrastructure, reducing the burden of cardiovascular diseases, and enhancing access to advanced medical treatments can act as drivers for the stent market.

Key Market Drivers

Technological Advancements

Drug-eluting stents are coated with medications that are slowly released over time to prevent restenosis (the re-narrowing of the blood vessel). This technology has significantly reduced the incidence of restenosis compared to bare-metal stents. Bioresorbable stents are designed to gradually dissolve over time after they have served their purpose of keeping a blood vessel open. This technology aims to address some limitations of permanent stents, such as the potential for long-term complications. Fully covered stents are used in specific applications where the entire stent is coated, providing a protective layer. These are commonly used in the treatment of certain types of strictures in the gastrointestinal tract. Bifurcation stents are designed for use in blood vessels that branch into two smaller vessels. They address challenges associated with stenting at bifurcation points and aim to improve procedural outcomes.

The use of 3D printing technology allows for the creation of customized stents based on the patient's anatomy. This personalized approach can improve the fit and effectiveness of the stent. Nanotechnology has been applied to stent coatings to enhance drug delivery and improve the biocompatibility of the stent surface. Nano-coatings aim to

reduce inflammation and enhance the healing process. Bioactive stents are designed to actively promote healing and tissue integration. These stents may release substances that encourage the formation of a healthy endothelial layer on the stent surface. Some stents are designed with dual therapy, combining antiplatelet medications with antiproliferative drugs. This approach aims to address both clotting and restenosis risks, providing a more comprehensive treatment.

Advanced imaging technologies, such as intravascular ultrasound (IVUS) and optical coherence tomography (OCT), allow for better visualization during stent placement, helping physicians ensure accurate positioning and optimal expansion. Emerging technologies include stents with sensors or remote monitoring capabilities. These stents can provide real-time information about blood flow, stent integrity, and other relevant parameters, allowing for proactive management of patient care. Magnetically guided stents can be navigated to specific locations within the body using external magnetic fields. This technology enables more precise placement and control during stent deployment. Stents with specialized coatings that resist blood clot formation help reduce the risk of thrombosis, enhancing the long-term safety of the device. This factor will help in the development of the UAE Stent Market.

Rising Awareness and Education

Improved awareness often leads to early recognition of cardiovascular symptoms and risk factors. Individuals who are more informed about the signs of heart disease or vascular issues are likely to seek medical attention earlier, facilitating timely diagnosis and intervention. Education about cardiovascular health and the importance of preventive measures can encourage individuals to adopt a healthier lifestyle. Lifestyle modifications, such as better dietary habits and increased physical activity, can contribute to reducing the risk of cardiovascular diseases, potentially lowering the need for stent interventions. Increased education empowers patients to make informed decisions about their healthcare. When individuals are aware of the available treatment options, including stent procedures, they can work collaboratively with healthcare professionals to choose the most suitable and effective interventions.

Education helps individuals understand the role of stents in treating cardiovascular conditions. Knowing the benefits and potential risks of stent procedures allows patients to have realistic expectations and make informed choices based on their health status and preferences. Improved awareness fosters better communication between patients and healthcare providers. Informed patients are more likely to engage in meaningful discussions with their physicians, leading to a shared decision-making process

regarding the necessity and type of intervention, including the use of stents. In some cases, there may be a stigma or fear associated with medical procedures. Enhanced awareness can help demystify the stent placement process, reducing apprehension and fostering a more positive attitude toward seeking necessary medical care.

Educational initiatives and community outreach programs can effectively disseminate information about cardiovascular health, risk factors, and available treatments. These programs can target specific populations to raise awareness and promote preventive measures. Public health campaigns focused on heart health and vascular diseases can contribute to a broader understanding of the importance of early intervention. These campaigns may include information about the role of stents in managing certain cardiovascular conditions. Ongoing education for healthcare professionals ensures that they stay informed about the latest advancements in medical treatments, including stent technologies. Well-informed healthcare providers are more likely to recommend appropriate interventions based on the latest evidence and guidelines. This factor will pace up the demand of the UAE Stent Market.

Increasing Aging Population

Aging is a significant risk factor for cardiovascular diseases such as coronary artery disease and peripheral arterial disease. As individuals age, the likelihood of developing atherosclerosis and other cardiovascular conditions that may necessitate stent placement increases. Atherosclerosis, the hardening and narrowing of arteries due to the buildup of plaque, becomes more common with age. Stents are often used to open narrowed or blocked arteries, making them a crucial intervention for managing atherosclerotic conditions. Elderly individuals may present with more complex and advanced vascular lesions. Stents are frequently employed in the treatment of complex lesions, offering a minimally invasive solution for addressing intricate vascular issues in older patients.

Aging is often associated with an increased prevalence of chronic health conditions, such as diabetes, hypertension, and hyperlipidemia. These conditions contribute to the development and progression of cardiovascular diseases, requiring interventions like stent placement. Older individuals, who may have multiple comorbidities and reduced physiological reserves, often prefer minimally invasive procedures. Stent placement procedures are typically less invasive than traditional surgical interventions, making them suitable for older patients. The aging population, with an increased focus on maintaining quality of life and functionality, may seek medical interventions that can alleviate symptoms and improve overall well-being. Stents can restore blood flow,

relieve symptoms, and enhance the quality of life for older individuals with cardiovascular issues.

Ongoing technological advancements in stent design and materials make them more suitable for use in elderly patients. Innovations such as drug-eluting stents and bioresorbable stents offer improved outcomes and address specific challenges associated with aging vasculature. Increasing life expectancy globally means that a growing proportion of the population is entering an age range where cardiovascular diseases become more prevalent. This demographic shift contributes to the overall increase in the demand for cardiovascular interventions, including stents. As individuals age, there is a growing emphasis on preventive healthcare. Regular screenings and early detection of cardiovascular risk factors may lead to interventions like stent placement at earlier stages, preventing the progression of vascular diseases. This factor will accelerate the demand of the UAE Stent Market.

Key Market Challenges

Market Saturation

As the market becomes saturated, the number of competitors increases. This intensifies competition among stent manufacturers and distributors, putting pressure on prices and profit margins. With a high level of competition, manufacturers may engage in price wars to gain market share. This can lead to price erosion, impacting on the overall revenue and profitability of companies operating in the stent market. In a saturated market, products may become commoditized, and differentiation between various stent offerings may diminish. This makes it challenging for manufacturers to stand out based on unique features or benefits. Saturated markets may experience slower growth rates compared to emerging markets. The demand for stents may become more stable, and expansion opportunities may be limited, impacting the overall growth potential of companies. Companies may find it challenging to increase their market share significantly in a saturated market. Growth strategies become more complex, and gaining a larger share of the market becomes increasingly difficult. To overcome market saturation, companies need to continually innovate and introduce new products or improvements to existing products. However, innovation in the medical device sector, including stents, often requires significant research and development investments.

Patient Safety Concerns

Patient safety concerns may arise due to complications associated with stent

thrombosis (blood clot formation) and restenosis (re-narrowing of the treated blood vessel). Addressing these issues is crucial to prevent adverse events and ensure the long-term success of stent interventions. Any invasive medical procedure, including stent placement, carries a risk of infection. Ensuring aseptic techniques during procedures and promoting proper postoperative care are essential to minimize infection risk and enhance patient safety. Some patients may be allergic to the materials used in stent coatings or components. Ensuring thorough patient assessment, including a history of allergies, and using biocompatible materials are important measures to mitigate the risk of allergic reactions. Anticoagulant and antiplatelet medications are often prescribed after stent placement to prevent blood clots. However, the use of these medications carries a risk of bleeding complications. Balancing the need for anticoagulation with the risk of bleeding is a delicate consideration in patient safety. Issues related to vascular access, such as bleeding, hematoma formation, or pseudoaneurysm, can occur during or after stent procedures. Proper vascular access management is crucial for minimizing complications and ensuring patient safety.

Key Market Trends

Focus on Outpatient Care

Stent placement procedures are often minimally invasive, making them suitable for outpatient settings. Advances in technology and techniques have allowed for shorter procedure times and quicker recovery, facilitating the transition to outpatient care. Outpatient care generally incurs lower costs compared to inpatient care. Patients undergoing stent procedures in outpatient settings may experience cost savings associated with shorter hospital stays and reduced resource utilization. Technological advancements, including the development of drug-eluting stents and improved procedural techniques, contribute to shorter recovery times. This supports the feasibility of performing stent procedures on an outpatient basis. The implementation of enhanced recovery after surgery (ERAS) protocols promotes faster patient recovery. These protocols, which include optimized pain management and early mobilization, align with the goals of outpatient care. Many patients prefer receiving care in familiar and comfortable environments, and outpatient settings often provide a more relaxed atmosphere compared to inpatient facilities. Offering stent procedures on an outpatient basis can align with patient preferences. Outpatient care allows for the efficient use of healthcare resources, optimizing the utilization of outpatient facilities and freeing up inpatient beds for more complex cases. This can contribute to overall healthcare system efficiency.

Segmental Insights

Product Type Insights

In 2022, the UAE Stent Market largest share was held by Vascular Stent segment and is predicted to continue expanding over the coming years. Vascular stents are commonly used in the treatment of cardiovascular diseases, such as coronary artery disease. Given the high prevalence of cardiovascular conditions in the population, the demand for vascular stents is likely to be substantial. Vascular stents, particularly coronary stents, are widely used in interventional cardiology procedures such as percutaneous coronary intervention (PCI) to treat narrowed or blocked coronary arteries. The significant burden of coronary artery disease contributes to the prominence of vascular stents in the market. Ongoing advancements in vascular stent technologies, including drug-eluting stents and bioresorbable stents, enhance their efficacy in treating vascular conditions. The adoption of innovative and advanced products may contribute to the dominance of the Vascular Stent segment. Vascular stents are often deployed in minimally invasive procedures, such as angioplasty and stent placement, which offer benefits such as quicker recovery times and reduced hospital stays. The preference for minimally invasive interventions could drive the demand for vascular stents. Vascular stents are utilized in the treatment of peripheral arterial disease (PAD), a condition affecting blood vessels outside the heart and brain. The prevalence of PAD, especially in the aging population, contributes to the demand for vascular stents.

Type Insights

In 2022, the UAE Stent Market largest share was held by Self-Expandable segment and is predicted to continue expanding over the coming years. Self-expandable stents have a flexible design that allows them to adapt to the natural contours of blood vessels. This characteristic makes them suitable for a variety of anatomical structures, including vessels with complex shapes or lesions. Self-expandable stents are often used in minimally invasive procedures, such as percutaneous transluminal angioplasty (PTA) and endovascular interventions. These procedures involve less trauma to the patient, shorter recovery times, and reduced hospital stays compared to traditional surgical interventions. The deployment process for self-expandable stents is generally straightforward. The stent is compressed for delivery and then expands to the desired diameter once in position. This ease of deployment can contribute to procedural efficiency and reduce the time required for the intervention. Self-expandable stents are well-suited for the treatment of complex vascular lesions, including those with varying

diameters or locations. Their ability to conform to different vessel sizes makes them effective in addressing a range of clinical scenarios. Self-expandable stents often have a secure anchoring mechanism that reduces the risk of stent migration or dislodgement after placement. This can enhance the long-term effectiveness of the stent in maintaining vessel patency.

End-User Insights

In 2022, the UAE Stent 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 typically have well-established medical infrastructure, including specialized cardiovascular departments and catheterization laboratories equipped for interventional procedures like stent placements. This infrastructure enables the efficient diagnosis and treatment of cardiovascular conditions, leading to a higher demand for stents. Hospitals and clinics often employ specialized healthcare professionals, including cardiologists, interventional radiologists, and cardiovascular surgeons. These professionals are trained to perform stent procedures and manage cardiovascular diseases, contributing to a higher volume of stent-related interventions in these settings. Hospitals and clinics are often referral centres for patients with complex medical conditions. Physicians in smaller healthcare facilities may refer patients to larger hospitals or clinics for specialized treatments, including stent procedures. This referral network can concentrate stent procedures in hospital settings. Hospitals are equipped to handle emergency cases and critical medical conditions, including acute cardiovascular events that may require immediate stent placement. The urgency and complexity of such cases often lead to a significant number of stent procedures being performed in hospital settings.

Regional Insights

The Abu Dhabi region dominates the UAE Stent Market in 2022. Abu Dhabi, being the capital of the UAE, often has well-developed healthcare infrastructure, including advanced hospitals, medical facilities, and specialized healthcare services. A robust healthcare system can contribute to a higher demand for medical devices such as stents. The economic strength of the Abu Dhabi region may influence healthcare spending and investment in medical technologies. Regions with higher economic resources often have better access to advanced medical treatments and devices. Abu Dhabi is a hub for medical tourism, it could attract patients from other regions and countries seeking advanced medical treatments, including stent procedures. This influx of patients could contribute to a higher demand for medical devices. Abu Dhabi hosts

research and development centers, medical institutions, or universities specializing in cardiovascular health. It may lead to innovation and advancements in stent technologies, driving the market in that region.

Key Market Players

Medtronic Meta FZ-LLC

Boston Scientific Corporation UAE

Becton Dickinson, and Company

CONMED Corporation UAE

Stryker ESCS BV

Abbott Laboratories S. A

B. Braun Medical Inc.

Report Scope:

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

Stent Market, By Product Type:

Vascular Stent

Non-Vascular Stents

Stent Market, By Material Type:

Metal

Polymer

Stent Market, By Type:

Balloon Expandable

Self-Expandable

Stent Market, By End-User:

Hospitals & Clinics

Ambulatory Care Centers

Others

Stent Market, By region:

Dubai

Abu Dhabi

Sharjah

Rest of UAE

Competitive Landscape

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

Available Customizations:

UAE Stent 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Applications
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. UAE STENT MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Product Type (Vascular Stents, Non-Vascular Stents)
 - 4.2.2. By Material Type (Metal, Polymer)
 - 4.2.3. By Type (Balloon Expandable, Self-Expandable)
 - 4.2.4. By End User (Hospitals & Clinics, Ambulatory Care Centers, Others)
 - 4.2.5. By Region (Dubai, Abu Dhabi, Sharjah, Rest of UAE)
 - 4.2.6. By Company

4.3. Product Market Map

5. UAE VASCULAR STENTS MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Type (Coronary Stents, Peripheral Stents, Neurovascular Stents)

5.2.2. By Material Type

5.2.3. By Type

5.2.4. By End User

6. UAE NON-VASCULAR STENTS MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type (Gastrointestinal Stents, Urological Stents, Pulmonary (Airway) Stents)

6.2.2. By Material Type

6.2.3. By Type

6.2.4. By End User

7. POLICY & REGULATORY LANDSCAPE

8. UAE ECONOMIC PROFILE

9. COMPETITIVE LANDSCAPE

9.1. Medtronic Meta FZ-LLC

9.2. Boston Scientific Corporation UAE

9.3. Becton Dickinson, and Company

9.4. CONMED Corporation UAE

9.5. Stryker ESCS BV

9.6. Abbott Laboratories S. A

9.7. B. Braun Medical Inc.

10. STRATEGIC RECOMMENDATIONS

11. ABOUT US & DISCLAIMER

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