

## **UAE Artificial Organs & Bionic Implants - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029**

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### **Report description:**

The UAE Artificial Organs and Bionic Implants Market is expected to witness a CAGR of 11.48% during the forecast period.

The COVID-19 pandemic impacted the studied market significantly. During the initial phase of the pandemic, due to the lockdowns and shutdowns, the number of organ transplants and surgeries decreased to avoid the contamination and spread of coronavirus. There was also a decreased in organ research and development-related activities related to artificial organs and bionic implants due to the shift of focus toward COVID-19 diagnostics and treatment. However, with resumed services and transplantation procedures, the studied market is expected to witness significant growth over the forecast period.

Certain factors propelling the market growth are the increased number of people suffering from organ failures, the rising incidents of motor accidents and injuries, and rapid technological advancements in the bionics sector. The rising number of chronic diseases among the population can lead to organ dysfunction due to lifestyle disorders such as unhealthy dietary habits, smoking, alcohol consumption, and lack of exercise, which is the key factor driving the market growth. For instance, an article published in Springer Nature in April 2021 stated that the pandemic level of obesity in the UAE was 28.8. The lifetime discounted direct costs associated with NASH and AF-NASH managed with SoC increased dramatically across all countries, amounting to USD 1.6 billion in UAE (local population) through 2030, reflecting the increasing country caseloads over the period. Thus, the increasing burden is expected to increase the demand for artificial organ and bionic implants in the country over the forecast period.

Additionally, a meta-analysis study published in the National Library of Medicine in December 2021 stated that the combined prevalence of hypertension was 31% in the UAE. In addition, as per the same source, the prevalence of hypertension was higher in Dubai (37%) than in the Abu Dhabi region (29%). Thus, the elevated blood pressure in the population causes the left ventricle to thicken, which increases the risk of heart attack and cardiac failure. This is expected to increase the demand for cardiac bionics,

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thereby boosting the market growth.

Furthermore, as per a news published in October 2021, the team at Cleveland Clinic Abu Dhabi performed two deceased donor kidney transplants and a deceased donor liver transplant in a single day. In addition, the team completed 10 of the complex transplant procedures in the first three weeks of October. Thus, the rising number of organ transplants in the country is expected to propel the demand for artificial organs and bionics during transplantation procedures, which, in turn, is anticipated to boost the market growth over the forecast period.

However, the expensive procedure, coupled with the fear of malfunction or failure of the device, is likely to impede the market growth over the forecast period.

#### UAE Artificial Organs & Bionic Implants Market Trends

##### Artificial Kidney Segment is Expected to Have a Highest Growth Rate in the UAE Artificial Organs and Bionic Implants Market Over the Forecast Period

The artificial kidney segment is expected to witness significant growth in the artificial organs and bionic implants market over the forecast period owing to the factors such as the rising prevalence of renal failures as well as increasing chronic diseases such as diabetes that lead to kidney disease. A wearable artificial kidney is a wearable dialysis machine. An individual with end-stage renal disease may use a wearable artificial kidney on a daily or even a continuous basis. The increasing incidence and prevalence of renal failures in India are expected to drive segment growth.

Kidney failure or dysfunction has become a burden in the country recently. For instance, an article published in the National Library of Medicine in February 2021, stated that it has been observed that renal impairment in COVID-19 individuals ranged from mild to severe. In addition, as per the same source, the most prevalent underlying conditions linked with moderate-to-severe renal function impairment among COVID-19 patients were diabetes mellitus and hypertension.

Additionally, according to the 2022 statistics published by the International Diabetes Federation Diabetes Atlas 10th edition of 2021, in the United Arab Emirates, 990.9 thousand people were living with diabetes, in 2021. In addition, as per the same source, this number is projected to reach 1,177.5 thousand by 2030. Thus, the high blood sugar from diabetes can damage blood vessels in the kidney as well as nephrons leading to kidney disease and kidney failure. This is expected to increase the demand for organ transplantation which in turn is anticipated to propel the market growth over the forecast period.

Therefore, owing to the aforesaid factors the segment is expected to witness growth over the forecast period.

##### Orthopedic Bionic Segment is Expected to Have Significant Share in the UAE Artificial Organs and Bionic Implants Market Over the Forecast Period

Some of the related disorders prevalent in the country are flat feet, osteoarthritis, rickets, arthritis, rheumatoid arthritis, osteoporosis, shin splints, gout, etc. The growing burden of orthopedic diseases due to the increasing geriatric population and the adoption of key strategies are expected to drive the segmental market. The study published in the National Library of Medicine in March 2021 stated that the prevalence of knee osteoarthritis was 56.6% in the UAE, which is significantly high. Thus, due to the high prevalence of orthopedic diseases, there is an increasing demand for early diagnosis, thus driving the market. Similarly, according to the study published in the National Library of Medicine in August 2021, the prevalence of limb-girdle muscular dystrophies (LGMD) was 19.64% among the UAE people. For an effective diagnosis of LGMD, there is a need for diagnostic imaging in the country, hence the high prevalence of the disease will drive the market.

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Furthermore, initiatives such as launching new facilities are another factor in market growth. For instance, in February 2022, Gargash Hospital launched its facilities equipped with the CORI Robotics Surgical System, one of the most advanced and efficient, real-intelligence hand-held robotics solutions for joint replacement surgeries. Thus, the increasing prevalence of orthopedic disorders coupled with the initiatives by the government and market players are expected to increase segmental growth over the forecast period.

## UAE Artificial Organs & Bionic Implants Industry Overview

The UAE Artificial Organs and Bionic Implants Market is concentrated with few major players. Some of the strategies implemented include agreements, collaborative models, business expansion, and product development. Some of the country's major companies include Boston Scientific Corporation, Medtronic PLC, Otto Bock Holding GmbH & Co. KG, and Zimmer Biomet.

### Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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