

Middle East Orthopedic Digit Implants Market Size, Share & Trends Analysis Report By Product (Metatarsal Joint Implants, Toe Intramedullary Implants), By Material (Titanium, Nitinol, Silicon Pyrocarbon), By End-use, By Country, And Segment Forecasts, 2025 - 2033

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Abstracts

Middle East Orthopedic Digit Implants Market Summary

The Middle East orthopedic digit implants market size was estimated at USD 4.75 million in 2024 and is projected to reach USD 7.18 million by 2033, growing at a CAGR of 4.65% from 2025 to 2033. The market is poised for growth, driven by the rising incidence of finger and toe fractures associated with road traffic accidents, sports injuries, and occupational hazards.

Increasing adoption of motion-preserving implants over traditional fusion techniques reflects a growing preference for solutions that restore functionality and mobility. In July 2022, Doctors at Tawam Hospital, Al Ain, performed a nine-hour hand replantation surgery after an industrial accident, restoring blood flow to severed fingers within two hours. A toe-to-thumb microvascular transfer reconstructed the thumb, enabling functional recovery.

The Middle East records some of the highest rates of road traffic accidents worldwide, combined with strong participation in football, basketball, and combat sports. These factors have resulted in a rising incidence of finger and toe fractures, as well as ligament injuries, which directly increases demand for digit implants. In September 2024, a study in the Middle East Journal of Rehabilitation and Health Studies reported

that road traffic injuries in MENA declined from 1990 to 2019. Motor vehicles accounted for the highest death rate at 15.32 per 100,000, followed by pedestrians (8.37), motorcyclists (2.16), and cyclists (0.35). Saudi Arabia (46.7) and Oman (25.5) recorded the highest motor vehicle fatality rates, while Oman (17.7) and Yemen (12.95) led in pedestrian-related deaths.

The region's demographic profile is also shaping demand for orthopedic digit implants. A large working-age population faces the risk of occupational hand and foot injuries. In contrast, the aging population in Saudi Arabia, the UAE, and other Gulf countries experiences a higher prevalence of osteoarthritis and rheumatoid arthritis. These conditions often necessitate surgical intervention to preserve mobility and alleviate pain in digit joints. In February 2024, a study in Cureus examined 150 rheumatoid arthritis patients in Saudi Arabia, revealing that nearly all had at least one comorbidity, with anemia, hypertension, and diabetes being the most common. The findings underscore the significant health burden of RA in the region and highlight the importance of comprehensive management strategies tailored to local patient needs.

Advancements in surgical techniques and healthcare infrastructure are accelerating adoption across the Middle East. Surgeons are moving toward motion-preserving and minimally invasive approaches, increasingly choosing digit implants over fusion methods to restore function. Substantial investments in specialty care facilities, surgical training, and modern implant technologies in the Gulf region are improving access and patient outcomes. In December 2022, an article in the Journal of Manufacturing and Materials Processing reviewed the latest in orthopedic digit and joint implants, highlighting how additive manufacturing and biocompatible biomaterials like titanium alloys and polymers are transforming implant design, durability, and clinical outcomes.

Middle East Orthopedic Digit Implants Market Report Segmentation

This report forecasts revenue and volume growth at the regional and country levels and provides an analysis of industry trends in each of the sub segments from 2021 to 2033. For this study, Grand View Research, Inc. has segmented the Middle East orthopedic digit implants market report based on product, material, end-use, and country:

Product Outlook (Revenue, USD Million, 2021 - 2033)

Metatarsal Joint Implants

Metacarpal Joint Implants

Hemi Phalangeal Implants

Scaphoid Bone Implants

Toe Intramedullary Implants

Material Outlook (Revenue, USD Million, 2021 - 2033)

Titanium

Nitinol

Silicon Pyrocarbon

Stainless Steel

Other Materials

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals

Outpatient Facilities

Country Outlook (Revenue, USD Million, 2021 - 2033)

Saudi Arabia

UAE

Kuwait

Qatar

Oman

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