

Middle East & Africa Joint Resurfacing Devices Market Size and Forecast (2021 - 2031)

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Abstracts

The Middle East & Africa Joint Resurfacing Devices Market is projected to grow significantly, reaching an estimated US\$ 92.9 million by 2031, up from US\$ 73.1 million in 2024. This growth represents a compound annual growth rate (CAGR) of 3.6% from 2025 to 2031. The market's expansion is primarily driven by the healthcare advancements funded by oil revenues in the Gulf region and the increasing prevalence of chronic diseases across Africa, although it faces challenges due to infrastructure limitations.

Economic conditions in the region vary widely. In the Gulf Cooperation Council (GCC) countries, osteoarthritis affects approximately 10-15% of adults over the age of 50, according to World Health Organization (WHO) data. Saudi Arabia's Vision 2030 initiative has allocated US\$ 65 billion to healthcare, facilitating the adoption of advanced joint resurfacing technologies. The Saudi Ministry of Health reported a 22% increase in hip resurfacing procedures in 2024, utilizing systems like Stryker's Mako, which enhances precision and has achieved a 90% patient satisfaction rate in restoring mobility.

In South Africa, the National Department of Health has earmarked ZAR 270 billion (approximately US\$ 15 billion) for orthopedic upgrades in 2025, addressing a 12% annual rise in joint disorders, largely due to road trauma. Resurfacing options, such as Smith and Nephew's OXINIUM implants, have demonstrated a 94% survivorship rate in clinical trials. Additionally, the Cleveland Clinic Abu Dhabi in Dubai has integrated AI-driven resurfacing planning, which has reduced surgical times by 25% and attracted medical tourists from Africa. The African Union's health strategy for 2025 aims to train 10,000 specialists to enhance healthcare delivery.

In countries like Israel and Turkiye, hybrid resurfacing techniques that combine cemented and cementless methods are being explored. Turkiye is also expanding its healthcare infrastructure with 20 new hospitals by 2025, which will improve access to joint resurfacing procedures. National data indicates that Turkiye performs around 15,000 knee resurfacing surgeries annually.

Reimbursement policies for joint resurfacing devices vary across the region. In the GCC, public health systems cover approximately 85% of the costs, while Egypt's expansion of universal coverage is improving affordability for patients. Innovations such as Zimmer Biomet's 3D-printed devices, which boast a 92% fit accuracy, are being piloted in UAE medical centers, leading to a 20% reduction in revision surgeries.

Collaborative initiatives, such as the Middle East Orthopaedic Society's resurfacing symposium in 2025, are fostering knowledge transfer to African nations. Non-governmental organizations like M?decins Sans Fronti?res are equipping clinics to perform basic orthopedic procedures. Urbanization is contributing to an increase in lifestyle-related diseases, with arthritis prevalence expected to reach 20% by 2030, according to the African CDC. The market is evolving towards equitable and technology-enabled resurfacing solutions aimed at alleviating pain and enhancing productivity for underserved populations.

Market Segmentation Analysis

The Middle East & Africa Joint Resurfacing Devices Market can be segmented by type, material, and end user. By type, the market includes Knee, Hip, Shoulder, Ankle, and Others, with the Knee segment being the largest in 2024. In terms of material, the market is divided into Metal, Ceramic, and Others, with Metal leading the market share. The end-user segmentation includes Hospitals, Orthopedic Clinics, Ambulatory Surgical Centers, and Others, where Hospitals also dominate the market.

Market Outlook

Unlike traditional joint replacements that are typically suited for end-stage elderly osteoarthritis patients, resurfacing devices appeal to a broader patient demographic by capping articular surfaces, avoiding femoral neck resection, and allowing for future revisions to total arthroplasty. Knee osteoarthritis, the most prevalent form, is influenced by high body mass index (BMI), a modifiable risk factor that contributes significantly to years lived with disability (YLDs).

The WHO indicates that osteoarthritis often begins in individuals in their late 40s and increasingly affects athletes due to trauma. Globally, 344 million people suffer from moderate to severe osteoarthritis, necessitating interventions to prevent long-term disability. Male farmers and laborers are particularly at risk for hip and knee replacements due to repetitive strain, with YLDs in this demographic rising by 69.4%. Females show a steeper incidence trend, while males experience a 0.09% annual increase linked to contact sports.

In low-SDI countries, age-standardized rates of osteoarthritis are increasing by over 100%, driving demand for affordable and customizable solutions, such as augmented reality-guided implants that reduce recurrence rates by 25% in high-risk knees, thus expanding the market beyond just geriatric patients.

Country Insights

By country, the market is segmented into Saudi Arabia, South Africa, the United Arab Emirates, and the Rest of Middle East & Africa, with South Africa holding the largest market share in 2024. The joint resurfacing devices market in South Africa is rapidly expanding due to a high burden of osteoarthritis, with urban prevalence at 55.1% and rural rates at 82.7% among adults over 65. The demand for cost-effective resurfacing options is driven by socioeconomic disparities and lifestyle factors.

Ceramic-on-ceramic implants, such as the ReCerf system, are gaining traction in South Africa, particularly in facilities like Anca Clinic and Roseacres Hospital, targeting younger patients and preserving bone stock. Complication rates remain low, with deep infections at 1.6% and revisions at 2.6%, comparable to global standards. However, follow-up care in rural areas remains a challenge. The National Health Insurance scheme aims to subsidize resurfacing devices, addressing inequities in access to care.

Academic institutions, such as the University of Cape Town, report a 20% annual increase in resurfacing cases since 2015, driven by conditions like avascular necrosis and post-traumatic osteoarthritis. Community programs by the Arthritis Foundation are promoting early detection, potentially reducing disability rates by 25%. With an aging population projected to reach 10% by 2030, the market for joint resurfacing devices in South Africa is poised for significant growth, supported by local manufacturing initiatives and the importation of devices from Europe.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. JOINT RESURFACING DEVICES MARKET LANDSCAPE

- 4.1 Market Overview

4. 2 PEST ANALYSIS

- 4.2.1 List of Vendors in the Value Chain

5. MIDDLE EAST & AFRICA JOINT RESURFACING DEVICES MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
- 5.2 Market Restraints
- 5.3 Market Opportunities
- 5.4 Future Trends
- 5.5 Impact of Drivers and Restraints:

6. JOINT RESURFACING DEVICES MARKET - MIDDLE EAST & AFRICA MARKET ANALYSIS

6.1 Middle East & Africa Joint Resurfacing Devices Market Revenue (US\$ Million), 2024 - 2031

6.2 Middle East & Africa Joint Resurfacing Devices Market Forecast and Analysis

7. MIDDLE EAST & AFRICA JOINT RESURFACING DEVICES MARKET REVENUE ANALYSIS - BY TYPE

7.1 Knee

7.1.1 Overview

7.1.2 Knee: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.2 Hip

7.2.1 Overview

7.2.2 Hip: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.3 Shoulder

7.3.1 Overview

7.3.2 Shoulder: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.4 Ankle

7.4.1 Overview

7.4.2 Ankle: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.5 Others

7.5.1 Overview

7.5.2 Others: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8. MIDDLE EAST & AFRICA JOINT RESURFACING DEVICES MARKET REVENUE ANALYSIS - BY MATERIAL

8.1 Metal

8.1.1 Overview

8.1.2 Metal: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.2 Ceramic

8.2.1 Overview

8.2.2 Ceramic: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.3 Others

8.3.1 Overview

8.3.2 Others: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9. MIDDLE EAST & AFRICA JOINT RESURFACING DEVICES MARKET REVENUE ANALYSIS - BY END USER

9.1 Hospitals

9.1.1 Overview

9.1.2 Hospitals: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.2 Orthopedic Clinics

9.2.1 Overview

9.2.2 Orthopedic Clinics: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.3 Ambulatory Surgical Centers

9.3.1 Overview

9.3.2 Ambulatory Surgical Centers: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.4 Others

9.4.1 Overview

9.4.2 Others: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10. MIDDLE EAST & AFRICA JOINT RESURFACING DEVICES MARKET - COUNTRY ANALYSIS

10.1 Middle East & Africa

10.1.1 Middle East & Africa Joint Resurfacing Devices Market Revenue and Forecast and Analysis - by Country

10.1.1.1 Middle East & Africa Joint Resurfacing Devices Market Revenue and Forecast and Analysis - by Country

10.1.2.2 Saudi Arabia: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.1.2.2.1 Saudi Arabia: Middle East & Africa Joint Resurfacing Devices Market

Share - by Type

10.1.2.2.2 Saudi Arabia: Middle East & Africa Joint Resurfacing Devices Market

Share - by Material

10.1.2.2.3 Saudi Arabia: Middle East & Africa Joint Resurfacing Devices Market

Share - by End User

10.2.3.3 South Africa: Middle East & Africa Joint Resurfacing Devices Market -
Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.2.3.3.1 South Africa: Middle East & Africa Joint Resurfacing Devices Market

Share - by Type

10.2.3.3.2 South Africa: Middle East & Africa Joint Resurfacing Devices Market

Share - by Material

10.2.3.3.3 South Africa: Middle East & Africa Joint Resurfacing Devices Market

Share - by End User

10.3.4.4 United Arab Emirates: Middle East & Africa Joint Resurfacing Devices
Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.3.4.4.1 United Arab Emirates: Middle East & Africa Joint Resurfacing Devices
Market Share - by Type

10.3.4.4.2 United Arab Emirates: Middle East & Africa Joint Resurfacing Devices
Market Share - by Material

10.3.4.4.3 United Arab Emirates: Middle East & Africa Joint Resurfacing Devices
Market Share - by End User

10.4.5.5 Rest of Middle East & Africa: Middle East & Africa Joint Resurfacing Devices
Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.4.5.5.1 Rest of Middle East & Africa: Middle East & Africa Joint Resurfacing
Devices Market Share - by Type

10.4.5.5.2 Rest of Middle East & Africa: Middle East & Africa Joint Resurfacing
Devices Market Share - by Material

10.4.5.5.3 Rest of Middle East & Africa: Middle East & Africa Joint Resurfacing
Devices Market Share - by End User

11 COMPETITIVE LANDSCAPE

11.1 Heat Map Analysis by Key Players

11.2 Company Positioning & Concentration

12 INDUSTRY LANDSCAPE

12.1 Overview

12.2 New Product Development

- 12.3 Merger and Acquisition
- 12.4 Other Strategic Developments

13 COMPANY PROFILES

13.1 MicroPort Scientific Corp

- 13.1.1 Key Facts
- 13.1.2 Business Description
- 13.1.3 Products and Services
- 13.1.4 Financial Overview
- 13.1.5 SWOT Analysis
- 13.1.6 Key Developments

13.2 Stryker Corp

- 13.2.1 Key Facts
- 13.2.2 Business Description
- 13.2.3 Products and Services
- 13.2.4 Financial Overview
- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments

13.3 Zimmer Biomet Holdings Inc

- 13.3.1 Key Facts
- 13.3.2 Business Description
- 13.3.3 Products and Services
- 13.3.4 Financial Overview
- 13.3.5 SWOT Analysis
- 13.3.6 Key Developments

13.4 Smith & Nephew Plc

- 13.4.1 Key Facts
- 13.4.2 Business Description
- 13.4.3 Products and Services
- 13.4.4 Financial Overview
- 13.4.5 SWOT Analysis
- 13.4.6 Key Developments

13.5 JRI Orthopaedics Limited

- 13.5.1 Key Facts
- 13.5.2 Business Description
- 13.5.3 Products and Services
- 13.5.4 Financial Overview
- 13.5.5 SWOT Analysis

- 13.5.6 Key Developments
- 13.6 Enovis Corp
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Medacta Group SA
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments
- 13.8 Corin Group
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments
- 13.9 MatOrtho Limited
 - 13.9.1 Key Facts
 - 13.9.2 Business Description
 - 13.9.3 Products and Services
 - 13.9.4 Financial Overview
 - 13.9.5 SWOT Analysis
 - 13.9.6 Key Developments
- 13.10 JointMedica
 - 13.10.1 Key Facts
 - 13.10.2 Business Description
 - 13.10.3 Products and Services
 - 13.10.4 Financial Overview
 - 13.10.5 SWOT Analysis
 - 13.10.6 Key Developments

14. APPENDIX

14.1 About The Insight Partners

List Of Tables

LIST OF TABLES

- Table 1. Middle East & Africa Joint Resurfacing Devices Market Segmentation
- Table 2. List of Vendors
- Table 3. Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Table 4. Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 5. Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 6. Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User
- Table 7. Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Country
- Table 8. Saudi Arabia: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 9. Saudi Arabia: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 10. Saudi Arabia: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User
- Table 11. South Africa: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 12. South Africa: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 13. South Africa: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User
- Table 14. United Arab Emirates: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 15. United Arab Emirates: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 16. United Arab Emirates: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User
- Table 17. Rest of Middle East & Africa: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 18. Rest of Middle East & Africa: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 19. Rest of Middle East & Africa: Middle East & Africa Joint Resurfacing Devices

Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User
Table 20. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

Figure 1. Middle East & Africa Joint Resurfacing Devices Market Segmentation - Country

Figure 2. PEST Analysis

Figure 4. Middle East & Africa Joint Resurfacing Devices Market - Key Market Dynamics

Figure 5. Impact Analysis of Drivers and Restraints

Figure 6. Middle East & Africa Joint Resurfacing Devices Market Revenue (US\$ Million), 2024 - 2031

Figure 7. Middle East & Africa Joint Resurfacing Devices Market Share (%) - by Type, 2024 and 2031

Figure 8. Knee: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 9. Hip: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 10. Shoulder: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 11. Ankle: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 12. Others: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 13. Middle East & Africa Joint Resurfacing Devices Market Share (%) - by Material, 2024 and 2031

Figure 14. Metal: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 15. Ceramic: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 16. Others: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 17. Middle East & Africa Joint Resurfacing Devices Market Share (%) - by End User, 2024 and 2031

Figure 18. Hospitals: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 19. Orthopedic Clinics: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 20. Ambulatory Surgical Centers: Middle East & Africa Joint Resurfacing Devices

Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 21. Others: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 22. Middle East & Africa Joint Resurfacing Devices Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 23. Saudi Arabia: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 24. South Africa: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 25. United Arab Emirates: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 26. Rest of Middle East & Africa: Middle East & Africa Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 27. Company Positioning & Concentration

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