

South & Central America Joint Resurfacing Devices Market Size and Forecast (2021 - 2031)

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Abstracts

The South & Central America joint resurfacing devices market is projected to grow significantly, reaching an estimated US\$ 129.4 million by 2031, up from US\$ 97.9 million in 2024. This growth represents a compound annual growth rate (CAGR) of 4.2% from 2025 to 2031. The market is primarily driven by improvements in public health systems, an increase in medical tourism, and heightened awareness of mobility-preserving surgical options, particularly in the context of rising obesity rates and an aging population.

Market Overview

The joint resurfacing devices market in South & Central America is divided into several key regions: Brazil, Argentina, and the Rest of South & Central America. Brazil is at the forefront, with its Unified Health System (SUS) budget projected to reach US\$ 36 billion (BRL 200 billion) by 2025, facilitating over 100,000 knee resurfacing procedures annually. This is further enhanced by the integration of AI-driven platforms from companies like DePuy Synthes, which improve alignment precision by 15% during surgeries.

Argentina is also making strides, with Hospital Italiano set to adopt Zimmer Biomet's 3D-printed implants in 2025, achieving an impressive 88% five-year success rate in hip resurfacing cases and a 10% annual growth in procedures. In Central America, Costa Rica's CAJA system, which covers 75% of medical costs, attracts around 500,000 medical tourists each year, leveraging innovative solutions such as Smith and Nephew's REGENETEN for shoulder repairs, which provides 85% pain relief.

Colombia is undergoing a significant health reform with a US\$ 12 billion investment in

2025, modernizing 50 hospitals and introducing robotic-assisted systems like Stryker Mako, which can reduce recovery times by 40%. The increasing prevalence of obesity, projected to reach 30% by 2030 according to the Pan American Health Organization (PAHO), is expected to drive demand for joint resurfacing procedures, which have 20% lower complication rates compared to total joint replacements. Additionally, Chile has expanded its reimbursement policies to cover 80% of eligible cases, while Panama performs approximately 20,000 joint procedures annually.

Market Segmentation

The South & Central America joint resurfacing devices market is segmented by type, material, and end user. By type, the market includes knee, hip, shoulder, ankle, and other joint resurfacing devices, with the knee segment leading in market share in 2024. In terms of material, the market is divided into metal, ceramic, and other materials, with metal being the dominant segment. The end-user segmentation includes hospitals, orthopedic clinics, ambulatory surgical centers, and others, with hospitals holding the largest share in 2024.

Strategic Insights

The integration of telemedicine and remote patient monitoring (RPM) is revolutionizing postoperative care in joint resurfacing. Continuous, data-driven monitoring of implant performance and rehabilitation adherence has been shown to reduce readmission rates by 25%, particularly benefiting patients in underserved areas. This shift towards smarter, more accessible orthopedic care is marked by the use of wearable sensors embedded in resurfacing braces or connected applications that track critical metrics such as range of motion and inflammation levels. Data collected is securely transmitted for AI-assisted clinician review, allowing for timely interventions without necessitating in-person visits.

A study published in the Journal of Bone and Joint Surgery in 2025 involving 200 hip resurfacing patients using RPM apps like MyMobility reported a 94% satisfaction rate and a 20% faster return to baseline function within three months. Alerts from these systems helped prevent 15% of potential complications, such as deep vein thrombosis, through guided exercises. In knee resurfacing, telerehabilitation combined with IoT devices achieved an 88% adherence rate to rehabilitation protocols, yielding results comparable to in-person therapy while reducing costs by 30%, averaging US\$ 1,200 per patient.

For instance, the Orthotracker system integrates with smart insoles to monitor load distribution post-surgery, issuing alerts for deviations from normal metrics. In a trial involving 80 shoulder patients, this approach resulted in an 18% improvement in Oxford Shoulder Scores at the six-month mark.

With Medicare extending coverage for RPM until September 2025, this trend is expected to hybridize care models, blending virtual follow-ups with selective in-person assessments. Ultimately, the evolution of telemedicine and RPM is set to transform joint resurfacing from a one-time surgical event into a comprehensive, longitudinal care ecosystem that ensures seamless recovery and sustained joint health.

Country Insights

By country, Brazil holds the largest share of the joint resurfacing devices market in 2024. Despite a high burden of osteoarthritis (OA), which is the leading cause for total hip and knee replacements, the adoption of joint resurfacing devices has been cautious. The prevalence of OA in Brazil is approximately 10.7%, significantly affecting lower-income populations. Between 2012 and 2021, Brazil's SUS funded over 125,000 primary total hip arthroplasties, with the Southeast region accounting for the majority of these cases.

However, hip resurfacing arthroplasty remains a niche option, primarily for active patients under 65, with devices like the Cormet Hip Resurfacing System. Barriers to wider adoption include the steep learning curve for surgeons and concerns regarding metal ion release. Currently, resurfacing procedures account for less than 1% of total joint surgeries, despite a growing geriatric population exceeding 30 million. Projections indicate that OA prevalence could rise by 20-30% by 2050, further increasing the demand for innovative solutions aimed at reducing revision rates.

Key Players

Key players in the South & Central America joint resurfacing devices market include MicroPort Scientific Corp, Stryker Corp, Zimmer Biomet Holdings Inc, Smith & Nephew Plc, JRI Orthopaedics Limited, Enovis Corp, Medacta Group SA, Corin Group, MatOrtho Limited, and JointMedica. These companies are actively pursuing strategies such as market expansion, product innovation, and mergers and acquisitions to enhance their offerings and increase market share.

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