

MENA Knee Cartilage Repair Service Market Size and Forecast (2020-2030), Regional Share, Trends, and Growth Opportunity Analysis Coverage: Procedure Type (Arthroscopic Chondroplasty, Microfracture, Cell-based Cartilage Repair, Osteochondral Grafts Transplantation, and Others) and End User (Hospitals, Ambulatory Surgical Centers, and Orthopedic Clinics)

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Abstracts

According to our new research study on ' Knee Cartilage Repair Service Market Forecast to 2030 – Global Analysis – Procedure Type, and End User,' the knee cartilage repair service market size was valued at US\$ 0.222 billion in 2022 and is expected to reach US\$ 0.344 billion by 2030. It is estimated to register a CAGR of 5.5% during 2020–2030.

Knee cartilage repair is a type of treatment for knee preservation. The knee cartilage damage usually occurs in younger people (less than 50 years) as a result of twisted knee, smashed kneecap, or fractured knee. Cartilage may wear down over time as part of natural aging for the people over 50. Knee cartilage repair depends on factors including the depth, size, and location of the torn knee cartilage, associated knee injuries, patient's activity level, and patient's weight and age. Although a few cartilage injuries can be treated non-operatively, a surgical knee cartilage treatment is commonly recommended in cases with a focal cartilage defect. The most common knee cartilage repair procedures are microfracture and chondroplasty.

3D printing technologies are gaining a lot of attention in the medical sector. Technological advancements have allowed 3D bioprinting (3DBP) for cartilage as the 3D printing technology allows precise control of internal architecture and geometry of

printed scaffolds and has shown promising strategies in cartilage restoration. However, more research is required to accept 3D printing for cartilage. 3D printing requires bioinks with proper chemical and mechanical properties that play vital roles in designing successful cartilage tissue constructs. Extrusion-based, digital-light processing, and drop-on-demand inkjet techniques are used in cartilage repair that uses novel bioinks. The above-mentioned techniques have been associated with several advantages and disadvantages. The advantages and disadvantages are given in the table below.

Table 1. Advantages and Disadvantages of 3D Printing Techniques

3D Printing Techniques Extrusion-Based Digital-Light Processing Drop-on-Demand Inkjet

Advantages Support cell-laden bioinks Superior vertical structure fidelity Medium printing speed

Moderate-resolution High resolution High cell viability (>85%)

Improved shape fidelity Mild condition for cells (viability: 85–95%)

Disadvantages Slow printing speed Separating force between the platform and the printed surface Poor structure fidelity

Inferior cell viability (40–80%) May need the addition of a cytotoxic photo initiator Low cell density (

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