

# **Cartilage Repair/Regeneration Market Analysis By Treatment Modality (Cell-Based, Non-Cell-Based), By Application (Hyaline Cartilage, Fibrocartilage), By Treatment Type (Palliative, Intrinsic Repair Stimulus), By Site (Knee Cartilage Repair), And Segment Forecasts, 2014 - 2025**

<https://marketpublishers.com/r/C6F27BEC4F1EN.html>

Date: May 2017

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: C6F27BEC4F1EN

## **Abstracts**

The global cartilage repair/regeneration market is expected to reach USD 6.7 billion by 2025, according to a new report by Grand View Research, Inc. The market is expected to witness lucrative growth over the forecast period, owing to increasing prevalence of bone & joint disorders, such as Osteoarthritis (OA), rising geriatric population, and surge in number of accidents & related injuries across the globe.

Increasing number of road accidents worldwide are causing bone and joint injuries, which is anticipated to fuel the demand for cartilage repair products over the forecast period. For instance, as per data published by the World Health Organization (WHO) in November 2016, approximately 1.25 million people die each year in road accidents worldwide, owing to the influence of alcohol & reckless driving, use of mobile phone, and other associated factors such as bad weather conditions & improper road construction.

Around 30.0 million children and adolescents participate in youth sports in the U.S each year. This increase in sports activity increases incidents of injuries in athletes, which in turn propels demand for cartilage repair products. According to research data by the American Orthopaedic Society for Sports Medicine, over 3.5 million athletes receive medical treatment due to sports injuries each year.

### Further Key Findings From the Study Suggest:

The cell-based segment held a profitable revenue share in 2016 and is anticipated to grow at a significant rate over the forecast period owing to rising preference for autologous chondrocyte transplantation for surgical treatment of damaged articular cartilage (chondral and osteochondral lesions)

The hyaline cartilage segment is anticipated to witness the fastest growth during the forecast period due to high susceptibility of damage to hyaline cartilage in case cartilage-related injuries and increase in sport injuries

Owing to the extensive use of microfracture techniques during cartilage repair surgeries, the intrinsic repair stimulus segment dominated the market in 2016

Increasing prevalence of OA and rise in accident-related injuries are anticipated to support the growth of knee cartilage repair segment

North America is expected to dominate the cartilage repair market during the forecast period, owing to the rising prevalence of bone & joint disorders, increase in number of accidents & injuries, and growing geriatric population in the region are expected to spur the cartilage regeneration market growth.

Some of the key players of cartilage repair market are Zimmer Biomet; Stryker Corporation; DePuy Synthes; Smith & Nephew plc; Vericel Corporation; Osiris Therapeutics Inc.; B. Braun Melsungen AG; Anika Therapeutics, Inc.; Arthrex, Inc.; and Collagen Solutions Plc.

## Contents

### **CHAPTER 1. METHODOLOGY AND SCOPE**

- 1.1. Information Procurement
  - 1.1.1. Purchased database
  - 1.1.2. GVR's internal database
- 1.2. Data Analysis
- 1.3. Market Formulation & Validation
- 1.4. Primary Research
  - 1.4.1. List of primary sources
- 1.5. Approaches for Market Estimation
  - 1.5.1. Approach 1: Commodity flow & bottom-up approach
  - 1.5.2. Approach 2: Top-down and parent market analysis

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. Market Snapshot, 2016

### **CHAPTER 3. CARTILAGE REPAIR/REGENERATION MARKET VARIABLES, TRENDS & SCOPE**

- 3.1. Market Segmentation & Scope
- 3.2. Market Driver Analysis
- 3.3. Market Restraint Analysis
- 3.4. Penetration & Growth Prospect Mapping
- 3.5. SWOT Analysis, by Factor
  - 3.5.1. Political
  - 3.5.2. Economic
  - 3.5.3. Technological
- 3.6. Industry Analysis - Porter's

### **CHAPTER 4. CARTILAGE REPAIR/REGENERATION MARKET: TREATMENT MODALITY ESTIMATES & TREND ANALYSIS**

- 4.1. Treatment Modality Movement Analysis & Market Share, 2016 & 2025
- 4.2. Market Size Estimates & Forecasts and Trend Analyses, 2014 to 2025 for the following treatment modality:
  - 4.2.1. Cell-based

- 4.2.1.1. Chondrocyte transplantation
  - 4.2.1.1.1. Chondrocyte transplantation market estimates and forecasts, 2014 to 2025
- 4.2.1.2. Growth factor pharmacology
  - 4.2.1.2.1. Growth factor technology market estimates and forecasts, 2014 to 2025
- 4.2.2. Non-Cell-based
  - 4.2.2.1. Tissue scaffolds
    - 4.2.2.1.1. Tissue scaffolds market estimates and forecasts, 2014 to 2025
  - 4.2.2.2. Cell-free composites
    - 4.2.2.2.1. Cell-free composites market estimates and forecasts, 2014 to 2025

## **CHAPTER 5. CARTILAGE REPAIR/REGENERATION MARKET: APPLICATION ESTIMATES & TREND ANALYSIS**

- 5.1. Application Movement Analysis & Market Share, 2016 & 2025
- 5.2. Market Size Estimates & Forecasts for the following application:
  - 5.2.1. Hyaline cartilage
    - 5.2.1.1. Hyaline cartilage market estimates and forecasts, 2014 to 2025
  - 5.2.2. Fibrocartilage
    - 5.2.2.1. Fibrocartilage market estimates and forecasts, 2014 to 2025

## **CHAPTER 6. CARTILAGE REPAIR/REGENERATION MARKET: TREATMENT TYPE ESTIMATES & TREND ANALYSIS**

- 6.1. Treatment Type Analysis & Market Share, 2016 & 2025
- 6.2. Market Size Estimates & Forecasts for the following treatment type:
  - 6.2.1. Palliative
    - 6.2.1.1. Viscosupplementation
      - 6.2.1.1.1. Viscosupplementation market estimates and forecasts, 2014 to 2025
    - 6.2.1.2. Debridement & Lavage
      - 6.2.1.2.1. Debridement & lavage market estimates and forecasts, 2014 to 2025
  - 6.2.2. Intrinsic repair stimulus
    - 6.2.2.1. Intrinsic repair stimulus market estimates and forecasts, 2014 to 2025

## **CHAPTER 7. CARTILAGE REPAIR/REGENERATION MARKET: SITE ESTIMATES & TREND ANALYSIS**

- 7.1. Site Movement Analysis & Market Share, 2016 & 2025
- 7.2. Market Size Estimates & Forecasts for the following site:

### 7.2.1. Knee cartilage repair

#### 7.2.1.1. Knee cartilage repair market estimates and forecasts, 2014 to 2025

### 7.2.2. Other

#### 7.2.2.1. Other market estimates and forecasts, 2014 to 2025

## **CHAPTER 8. CARTILAGE REPAIR/REGENERATION MARKET: REGIONAL ESTIMATES & TREND ANALYSIS**

### 8.1. Regional Movement Analysis & Market Share, 2016 & 2025

#### 8.2. North America

##### 8.2.1. U.S.

8.2.1.1. U.S. revenue estimates and forecasts, by treatment modality 2014 - 2025 (USD Million)

8.2.1.2. U.S. revenue estimates and forecasts, by application 2014 - 2025 (USD Million)

8.2.1.3. U.S. revenue estimates and forecasts, by treatment type 2014 - 2025 (USD Million)

8.2.1.4. U.S. revenue estimates and forecasts, by technique 2014 - 2025 (USD Million)

##### 8.2.2. Canada

8.2.2.1. Canada revenue estimates and forecasts, by treatment modality 2014 - 2025 (USD Million)

8.2.2.2. Canada revenue estimates and forecasts, by application 2014 - 2025 (USD Million)

8.2.2.3. Canada revenue estimates and forecasts, by treatment type 2014 - 2025 (USD Million)

8.2.2.4. Canada revenue estimates and forecasts, by site 2014 - 2025 (USD Million)

#### 8.3. Europe

##### 8.3.1. UK

8.3.1.1. UK revenue estimates and forecasts, by treatment modality 2014 - 2025 (USD Million)

8.3.1.2. UK revenue estimates and forecasts, by application 2014 - 2025 (USD Million)

8.3.1.3. UK revenue estimates and forecasts, by treatment type 2014 - 2025 (USD Million)

8.3.1.4. UK revenue estimates and forecasts, by site 2014 - 2025 (USD Million)

##### 8.3.2. Germany

8.3.2.1. Germany revenue estimates and forecasts, by treatment modality 2014 - 2025 (USD Million)

8.3.2.2. Germany revenue estimates and forecasts, by application 2014 - 2025 (USD Million)

8.3.2.3. Germany revenue estimates and forecasts, by treatment type 2014 - 2025 (USD Million)

8.3.2.4. Germany revenue estimates and forecasts, by site 2014 - 2025 (USD Million)

#### 8.4. Asia Pacific

##### 8.4.1. Japan

8.4.1.1. Japan revenue estimates and forecasts, by treatment modality 2014 - 2025 (USD Million)

8.4.1.2. Japan revenue estimates and forecasts, by application 2014 - 2025 (USD Million)

8.4.1.3. Japan revenue estimates and forecasts, by treatment type 2014 - 2025 (USD Million)

8.4.1.4. Japan revenue estimates and forecasts, by site 2014 - 2025 (USD Million)

##### 8.4.2. China

8.4.2.1. China revenue estimates and forecasts, by treatment modality 2014 - 2025 (USD Million)

8.4.2.2. China revenue estimates and forecasts, by application 2014 - 2025 (USD Million)

8.4.2.3. China revenue estimates and forecasts, by treatment type 2014 - 2025 (USD Million)

8.4.2.4. China revenue estimates and forecasts, by site 2014 - 2025 (USD Million)

#### 8.5. Latin America

##### 8.5.1. Brazil

8.5.1.1. Brazil revenue estimates and forecasts, by treatment modality 2014 - 2025 (USD Million)

8.5.1.2. Brazil revenue estimates and forecasts, by application 2014 - 2025 (USD Million)

8.5.1.3. Brazil revenue estimates and forecasts, by treatment type 2014 - 2025 (USD Million)

8.5.1.4. Brazil revenue estimates and forecasts, by site 2014 - 2025 (USD Million)

##### 8.5.2. Mexico

8.5.2.1. Mexico revenue estimates and forecasts, by treatment modality 2014 - 2025 (USD Million)

8.5.2.2. Mexico revenue estimates and forecasts, by application 2014 - 2025 (USD Million)

8.5.2.3. Mexico revenue estimates and forecasts, by treatment type 2014 - 2025 (USD Million)

8.5.2.4. Mexico revenue estimates and forecasts, by site 2014 - 2025 (USD Million)

## 8.6. MEA

### 8.6.1. South Africa

8.6.1.1. South Africa revenue estimates and forecasts, by treatment modality 2014 - 2025 (USD Million)

8.6.1.2. South Africa revenue estimates and forecasts, by application 2014 - 2025 (USD Million)

8.6.1.3. South Africa revenue estimates and forecasts, by treatment type 2014 - 2025 (USD Million)

8.6.1.4. South Africa revenue estimates and forecasts, by site 2014 - 2025 (USD Million)

## **CHAPTER 9. COMPETITIVE LANDSCAPE**

### 9.1. Strategy Framework

### 9.2. Company Profiles

#### 9.2.1. Zimmer Biomet

9.2.1.1. Company overview

9.2.1.2. Financial performance

9.2.1.3. Product benchmarking

9.2.1.4. Strategic initiatives

#### 9.2.2. Stryker Corporation

9.2.2.1. Company overview

9.2.2.2. Financial performance

9.2.2.3. Product benchmarking

9.2.2.4. Strategic initiatives

#### 9.2.3. Depuy Synthes

9.2.3.1. Company overview

9.2.3.2. Financial performance

9.2.3.3. Product benchmarking

9.2.3.4. Strategic initiatives

#### 9.2.4. Smith & Nephew plc

9.2.4.1. Company overview

9.2.4.2. Financial performance

9.2.4.3. Product benchmarking

9.2.4.4. Strategic initiatives

#### 9.2.5. Vericel Corporation

9.2.5.1. Company overview

9.2.5.2. Financial Performance

9.2.5.3. Product benchmarking

- 9.2.5.4. Strategic initiatives
- 9.2.6. Osiris Therapeutics Inc.
  - 9.2.6.1. Company overview
  - 9.2.6.2. Financial performance
  - 9.2.6.3. Product benchmarking
  - 9.2.6.4. Strategic initiatives
- 9.2.7. B. Braun Melsungen AG
  - 9.2.7.1. Company overview
  - 9.2.7.2. Financial Performance
  - 9.2.7.3. Product benchmarking
  - 9.2.7.4. Strategic initiatives
- 9.2.8. Anika Therapeutics, Inc.
  - 9.2.8.1. Company overview
  - 9.2.8.2. Financial performance
  - 9.2.8.3. Product benchmarking
  - 9.2.8.4. Strategic initiatives
- 9.2.9. Arthrex, Inc.
  - 9.2.9.1. Company overview
  - 9.2.9.2. Financial performance
  - 9.2.9.3. Product benchmarking
  - 9.2.9.4. Strategic initiatives
- 9.2.10. Collagen Solutions Plc
  - 9.2.10.1. Company overview
  - 9.2.10.2. Financial performance
  - 9.2.10.3. Product benchmarking
  - 9.2.10.4. Strategic initiatives



## List Of Tables

### LIST OF TABLES

1. North America cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
2. North America cartilage repair market, by application, 2014 - 2025 (USD Million)
3. North America cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
4. North America cartilage regeneration market, by site, 2014 - 2025 (USD Million)
5. U.S. cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
6. U.S. cartilage repair market, by application, 2014 - 2025 (USD Million)
7. U.S. cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
8. U.S. cartilage regeneration market, by site, 2014 - 2025 (USD Million)
9. Canada cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
10. Canada cartilage repair market, by application, 2014 - 2025 (USD Million)
11. Canada cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
12. Canada cartilage regeneration market, by site, 2014 - 2025 (USD Million)
13. Europe cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
14. Europe cartilage repair market, by application, 2014 - 2025 (USD Million)
15. Europe cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
16. Europe cartilage regeneration market, by site, 2014 - 2025 (USD Million)
17. UK cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
18. UK cartilage repair market, by application, 2014 - 2025 (USD Million)
19. UK cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
20. UK cartilage regeneration market, by site, 2014 - 2025 (USD Million)
21. Germany cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
22. Germany cartilage repair market, by application, 2014 - 2025 (USD Million)
23. Germany cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
24. Germany cartilage regeneration market, by site, 2014 - 2025 (USD Million)
25. Asia Pacific cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
26. Asia Pacific cartilage repair market, by application, 2014 - 2025 (USD Million)
27. Asia Pacific cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
28. Asia Pacific cartilage regeneration market, by site, 2014 - 2025 (USD Million)
29. Japan cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
30. Japan cartilage repair market, by application, 2014 - 2025 (USD Million)

31. Japan cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
32. Japan cartilage regeneration market, by site, 2014 - 2025 (USD Million)
33. China cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
34. China cartilage repair market, by application, 2014 - 2025 (USD Million)
35. China cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
36. China cartilage regeneration market, by site, 2014 - 2025 (USD Million)
37. Latin America cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
38. Latin America cartilage repair market, by application, 2014 - 2025 (USD Million)
39. Latin America cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
40. Latin America cartilage regeneration market, by site, 2014 - 2025 (USD Million)
41. Brazil cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
42. Brazil cartilage repair market, by application, 2014 - 2025 (USD Million)
43. Brazil cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
44. Brazil cartilage regeneration market, by site, 2014 - 2025 (USD Million)
45. Mexico cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
46. Mexico cartilage repair market, by application, 2014 - 2025 (USD Million)
47. Mexico cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
48. Mexico cartilage regeneration market, by site, 2014 - 2025 (USD Million)
49. MEA cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
50. MEA cartilage repair market, by application, 2014 - 2025 (USD Million)
51. MEA cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
52. MEA cartilage regeneration market, by site, 2014 - 2025 (USD Million)
53. South Africa cartilage repair market, by treatment modality, 2014 - 2025 (USD Million)
54. South Africa cartilage repair market, by application, 2014 - 2025 (USD Million)
55. South Africa cartilage regeneration market, by treatment type, 2014 - 2025 (USD Million)
56. South Africa cartilage regeneration market, by site, 2014 - 2025 (USD Million)

## List Of Figures

### LIST OF FIGURES

1. Market summary
2. Market trends & outlook
3. Market segmentation & scope
4. Market driver relevance analysis (Current & future impact)
5. Market restraint relevance analysis (Current & future Impact)
6. Penetration & growth prospect mapping
7. Cartilage repair market PEST by SWOT analysis
8. Porter's Five Forces Analysis
9. Cartilage repair market treatment modality outlook: Key takeaways
10. Cartilage repair market: Treatment modality movement analysis
11. Cell-based market, 2014 - 2025 (USD Million)
12. Chondrocyte transplantation market, 2014 - 2025 (USD Million)
13. Growth factor technology market, 2014 - 2025 (USD Million)
14. Non-cell-based market, 2014 - 2025 (USD Million)
15. Tissue scaffolds market, 2014 - 2025 (USD Million)
16. Cell-free composites market, 2014 - 2025 (USD Million)
17. Cartilage repair market application outlook: Key takeaways
18. Cartilage repair market: Application movement analysis
19. Hyaline cartilage market, 2014 - 2025 (USD Million)
20. Fibrocartilage market, 2014 - 2025 (USD Million)
21. Cartilage repair market treatment type outlook: Key takeaways
22. Cartilage repair market: Treatment type movement analysis
23. Palliative market, 2014 - 2025 (USD Million)
24. Viscosupplementation market, 2014 - 2025 (USD Million)
25. Debridement & lavage market, 2014 - 2025 (USD Million)
26. Intrinsic repair stimulus market, 2014 - 2025 (USD Million)
27. Cartilage repair market site outlook: Key takeaways
28. Cartilage repair market: Site movement analysis
29. Knee cartilage repair market, 2014 - 2025 (USD Million)
30. Arthroscopic chondroplasty market, 2014 - 2025 (USD Million)
31. Autologous chondrocyte market, 2014 - 2025 (USD Million)
32. Osteochondral grafts transplantation market, 2014 - 2025 (USD Million)
33. Cell-based cartilage resurfacing market, 2014 - 2025 (USD Million)
34. Microfracture market, 2014 - 2025 (USD Million)
35. Other market, 2014 - 2025 (USD Million)

36. Other market, 2014 - 2025 (USD Million)
37. Regional market place: Key takeaways
38. Regional outlook, 2016& 2025
39. North America cartilage repair market, 2014 - 2025 (USD Million)
40. U.S. cartilage repair market, 2014 - 2025 (USD Million)
41. Canada cartilage repair market, 2014 - 2025 (USD Million)
42. Europe cartilage repair market, 2014 - 2025 (USD Million)
43. UK cartilage repair market, 2014 - 2025 (USD Million)
44. Germany cartilage repair market, 2014 - 2025 (USD Million)
45. Asia Pacific cartilage repair market, 2014 - 2025 (USD Million)
46. Japan cartilage repair market, 2014 - 2025 (USD Million)
47. China cartilage repair market, 2014 - 2025 (USD Million)
48. Latin America cartilage repair market, 2014 - 2025 (USD Million)
49. Brazil cartilage repair market, 2014 - 2025 (USD Million)
50. Mexico cartilage repair market, 2014 - 2025 (USD Million)
51. MEA cartilage repair market, 2014 - 2025 (USD Million)
52. South Africa cartilage repair market, 2014 - 2025 (USD Million)

## I would like to order

Product name: Cartilage Repair/Regeneration Market Analysis By Treatment Modality (Cell-Based, Non-Cell-Based), By Application (Hyaline Cartilage, Fibrocartilage), By Treatment Type (Palliative, Intrinsic Repair Stimulus), By Site (Knee Cartilage Repair), And Segment Forecasts, 2014 - 2025

Product link: <https://marketpublishers.com/r/C6F27BEC4F1EN.html>

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C6F27BEC4F1EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970