

Microneedle Drug Delivery Systems Market Size, Share & Trends Analysis Report By Type (Hollow, Dissolving, Solid, Coated), By Material (Metal, Silicon, Polymer), By Application, By Region, And Segment Forecasts, 2021 - 2028

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Abstracts

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Microneedle Drug Delivery Systems Market Growth & Trends

The global microneedle drug delivery systems market size is expected to reach USD 8.10 billion by 2028, according to a new report by Grand View Research Inc. The market is expected to expand at a CAGR of 5.3% from 2021 to 2028. The growing demand for safer alternatives to the conventional hypodermic injection and increasing awareness regarding minimally invasive and pain-free administration of drugs are expected to boost the market growth. Furthermore, the increasing cases of diabetes are expected to boost the market growth. For instance, according to the International Diabetes Federation (IDF), the number of diabetics has already reached 463 million and is predicted to rise in the next 10 years.

Drug delivery via microneedles is one of the most efficient procedures compared to traditional hypodermic injections. Microneedles are a self-administering platform for transdermal medication delivery that has a high drug bioavailability. The microneedle design and drug formulation can control the dose, delivery rate, and efficacy of the medications. Microneedle also helps reduce or eliminate biohazardous sharps waste. In the coming years, microneedles are expected to have a greater impact on clinical care.

Microneedles are still under development and use a variety of drugs in clinical trials.

The majority of studies have shown that this technique produces positive effects. This approach has the potential to be used for therapeutic purposes in a variety of fields. For instance, Carnegie Mellon University is developing a COVID-19 vaccination injection method employing 3D printed hybrid microneedle arrays (Hybrid-MNA). The Hybrid-MNA approach not only allows for lower doses, but is also painless and has the potential to be self-administered. These technologies are predicted to enable the production of microneedles at a cheaper cost. Microneedles have a wide range of applications, including vaccine administration, hormonal delivery, cancer therapy, pain management, and cosmetics.

Microneedle Drug Delivery Systems Market Report Highlights

The hollow type segment accounted for the largest revenue share in 2020 as they are considered ideal for the use of vaccine and hormonal therapy patients

The dissolving type segment is expected to grow at the fastest rate during the forecast period as it only requires one step and the microneedle needs not to be removed after insertion

The metal material segment accounted for the largest revenue share in 2020. Stainless steel and titanium are the most frequently employed metals

By application, the drug delivery segment dominated the market in 2020. The vaccine delivery segment is expected to register the fastest growth rate during the forecast period due to the increased awareness regarding vaccination among the population

Asia Pacific is anticipated to expand at the fastest CAGR over the forecast period due to the presence of untapped opportunities in the emerging economies, such as China and India

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
 - 1.1.1. Type
 - 1.1.2. Material
 - 1.1.3. Application
 - 1.1.4. Regional scope
 - 1.1.5. Estimates and forecast timeline
- 1.2. Research Methodology
- 1.3. Information Procurement
 - 1.3.1. Purchased database
 - 1.3.2. GVR's internal database
 - 1.3.3. Secondary sources
 - 1.3.4. Primary research
 - 1.3.5. Details of primary research
 - 1.3.5.1. Data for primary interviews in North America
 - 1.3.5.2. Data for primary interviews in Europe
 - 1.3.5.3. Data for primary interviews in Asia Pacific
 - 1.3.5.4. Data for primary interviews in Latin America
 - 1.3.5.5. Data for Primary interviews in MEA
- 1.4. Information or Data Analysis
 - 1.4.1. Data analysis models
- 1.5. Market Formulation & Validation
- 1.6. Model Details
 - 1.6.1. Commodity flow analysis (Model 1)
 - 1.6.2. Approach 1: Commodity flow approach
 - 1.6.3. Volume price analysis (Model 2)
 - 1.6.4. Approach 2: Volume price analysis
- 1.7. List of Secondary Sources
- 1.8. List of Primary Sources
- 1.9. Objectives
 - 1.9.1. Objective
 - 1.9.2. Objective

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook

- 2.2. Segment Outlook
 - 2.2.1. Type outlook
 - 2.2.2. Material outlook
 - 2.2.3. Application outlook
 - 2.2.4. Regional outlook
- 2.3. Competitive Insights

CHAPTER 3. MICRONEEDLE DRUG DELIVERY SYSTEMS MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Parent market outlook
 - 3.1.2. Related/ancillary market outlook
- 3.2. Penetration & Growth Prospect Mapping
- 3.3. Industry Value Chain Analysis
 - 3.3.1. Reimbursement framework
- 3.4. Market Dynamics
 - 3.4.1. Market driver analysis
 - 3.4.1.1. The increasing demand for a safer substitute to conventional hypodermic injections
 - 3.4.1.2. Increase in diabetic cases across the globe
 - 3.4.1.3. Technological advancements
 - 3.4.2. Market restraint analysis
 - 3.4.2.1. Limited number of approved products
 - 3.4.2.2. Complications/risks associated with microneedles
- 3.5. Microneedle Drug Delivery Systems Market Analysis Tools
 - 3.5.1. Industry Analysis - Porter's
 - 3.5.1.1. Supplier power
 - 3.5.1.2. Buyer power
 - 3.5.1.3. Substitution threat
 - 3.5.1.4. Threat of new entrant
 - 3.5.1.5. Competitive rivalry
 - 3.5.2. PESTEL Analysis
 - 3.5.2.1. Political landscape
 - 3.5.2.2. Technological landscape
 - 3.5.2.3. Economic landscape
 - 3.5.3. Major Deals & Strategic Alliances Analysis
 - 3.5.4. Market Entry Strategies

CHAPTER 4. MICRONEEDLE DRUG DELIVERY SYSTEMS: TYPE ESTIMATES & TREND ANALYSIS

4.1. Definitions and Scope

- 4.1.1. Solid
- 4.1.2. Hollow
- 4.1.3. Dissolving
- 4.1.4. Coated
- 4.1.5. Others

4.2. Type Market Share, 2020 & 2028

4.3. Segment Dashboard

4.4. Global Microneedle Drug Delivery Systems Market by Type Outlook

4.5. Market Size & Forecasts and Trend Analyses, 2016 to 2028 for the following

- 4.5.1. Solid
 - 4.5.1.1. Solid market estimates and forecast 2016 to 2028 (USD Million)
- 4.5.2. Hollow
 - 4.5.2.1. Hollow market estimates and forecast 2016 to 2028 (USD Million)
- 4.5.3. Dissolving
 - 4.5.3.1. Dissolving market estimates and forecast 2016 to 2028 (USD Million)
- 4.5.4. Coated
 - 4.5.4.1. Coated market estimates and forecast 2016 to 2028 (USD Million)
- 4.5.5. Others
 - 4.5.5.1. Others market estimates and forecast 2016 to 2028 (USD Million)

CHAPTER 5. MICRONEEDLE DRUG DELIVERY SYSTEMS: MATERIAL ESTIMATES & TREND ANALYSIS

5.1. Definitions and Scope

- 5.1.1. Silicon
- 5.1.2. Metal
- 5.1.3. Polymer
- 5.1.4. Others

5.2. Material Market Share, 2020 & 2028

5.3. Segment Dashboard

5.4. Global Microneedle Drug Delivery Systems Market by Material Outlook

5.5. Market Size & Forecasts and Trend Analyses, 2016 to 2028 for the following

- 5.5.1. Silicon
 - 5.5.1.1. Silicon market estimates and forecast 2016 to 2028 (USD million)
- 5.5.2. Metal

5.5.2.1. Metal market estimates and forecast 2016 to 2028 (USD Million)

5.5.3. Polymer

5.5.3.1. Polymer market estimates and forecast 2016 to 2028 (USD million)

5.5.4. Others

5.5.4.1. Others market estimates and forecast 2016 to 2028 (USD million)

CHAPTER 6. MICRONEEDLE DRUG DELIVERY SYSTEMS: APPLICATION ESTIMATES & TREND ANALYSIS

6.1. Definitions and Scope

6.1.1. Dermatology

6.1.2. Drug delivery

6.1.3. Pain management

6.1.4. Cancer therapy

6.1.5. Vaccine delivery

6.1.6. Others

6.2. Material Market Share, 2020 & 2028

6.3. Segment Dashboard

6.4. Global Microneedle Drug Delivery Systems Market by Application Outlook

6.5. Market Size & Forecasts and Trend Analyses, 2016 to 2028 for the following

6.5.1. Dermatology

6.5.1.1. Dermatology market estimates and forecast 2016 to 2028 (USD million)

6.5.2. Hormone delivery

6.5.2.1. Hormone delivery market estimates and forecast 2016 to 2028 (USD Million)

6.5.3. Pain management

6.5.3.1. Pain management market estimates and forecast 2016 to 2028 (USD million)

6.5.4. Cancer therapy

6.5.4.1. Cancer therapy market estimates and forecast 2016 to 2028 (USD Million)

6.5.5. Vaccine delivery

6.5.5.1. Vaccine delivery market estimates and forecast 2016 to 2028 (USD Million)

6.5.6. Others

6.5.6.1. Others market estimates and forecast 2016 to 2028 (USD Million)

CHAPTER 7. MICRONEEDLE DRUG DELIVERY SYSTEMS MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

7.1. Regional market share analysis, 2020 & 2028

7.2. Regional Market Dashboard

7.3. Global Regional Market Snapshot

- 7.4. Regional Market Share and Leading Players, 2020
 - 7.4.1. North America
 - 7.4.2. Europe
 - 7.4.3. Asia Pacific
 - 7.4.4. Latin America
 - 7.4.5. Middle East and Africa
- 7.5. SWOT Analysis, by Factor (Political & Legal, Economic and Technological)
 - 7.5.1. North America
 - 7.5.2. Europe
 - 7.5.3. Asia Pacific
 - 7.5.4. Latin America
 - 7.5.5. Middle East and Africa
- 7.6. Market Size, & Forecasts, Volume and Trend Analysis, 2016 to 2028:
- 7.7. North America
 - 7.7.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
 - 7.7.2. U.S.
 - 7.7.2.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
 - 7.7.3. Canada
 - 7.7.3.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
- 7.8. Europe
 - 7.8.1. U.K.
 - 7.8.1.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
 - 7.8.2. Germany
 - 7.8.2.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
 - 7.8.3. France
 - 7.8.3.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
 - 7.8.4. Italy
 - 7.8.4.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
 - 7.8.5. Spain
 - 7.8.5.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
- 7.9. Asia Pacific
 - 7.9.1. China
 - 7.9.1.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
 - 7.9.2. Japan
 - 7.9.2.1. Market estimates and forecast, 2016 - 2028 (Volume, Thousand)
 - 7.9.3. India
 - 7.9.3.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)
 - 7.9.4. Thailand
 - 7.9.4.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)

7.9.5. South Korea

7.9.5.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)

7.10. Latin America

7.10.1. Brazil

7.10.1.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)

7.10.2. Mexico

7.10.2.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)

7.10.3. Argentina

7.10.3.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)

7.10.4. Colombia

7.10.4.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)

7.11. MEA

7.11.1. Saudi Arabia

7.11.1.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)

7.11.2. South Africa

7.11.2.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)

7.11.3. UAE

7.11.3.1. Market estimates and forecast, 2016 - 2028 (Revenue, USD Million)

CHAPTER 8. COMPETITIVE LANDSCAPE

8.1. Recent Developments & Impact Analysis, By Key Market Participants

8.2. Company/Competition Categorization

8.2.1. Innovators

8.3. Vendor Landscape

8.3.1. List of key distributors and channel partners

8.3.2. Key customers

8.3.3. Key company market share analysis, 2020

8.3.4. Raphas

8.3.4.1. Company overview

8.3.4.2. Financial performance

8.3.4.3. Product benchmarking

8.3.4.4. Strategic initiatives

8.3.5. Novartis International AG

8.3.5.1. Company overview

8.3.5.2. Financial performance

8.3.5.3. Product benchmarking

8.3.5.4. Strategic initiatives

8.3.6. Becton, Dickinson and Company

- 8.3.6.1. Company overview
- 8.3.6.2. Financial performance
- 8.3.6.3. Product benchmarking
- 8.3.6.4. Strategic initiatives
- 8.3.7. B. Braun
 - 8.3.7.1. Company overview
 - 8.3.7.2. Financial performance
 - 8.3.7.3. Product benchmarking
 - 8.3.7.4. Strategic initiatives
- 8.3.8. Nanopass Technologies Limited
 - 8.3.8.1. Company overview
 - 8.3.8.2. Financial performance
 - 8.3.8.3. Product benchmarking
 - 8.3.8.4. Strategic initiatives
- 8.3.9. Termo
 - 8.3.9.1. Company overview
 - 8.3.9.2. Financial performance
 - 8.3.9.3. Product benchmarking
 - 8.3.9.4. Strategic initiatives
- 8.3.10. Smiths Medical
 - 8.3.10.1. Company overview
 - 8.3.10.2. Financial performance
 - 8.3.10.3. Product benchmarking
 - 8.3.10.4. Strategic initiatives
- 8.3.11. Cardinal Health
 - 8.3.11.1. Company overview
 - 8.3.11.2. Financial performance
 - 8.3.11.3. Product benchmarking
 - 8.3.11.4. Strategic initiatives
- 8.3.12. 3M
 - 8.3.12.1. Company overview
 - 8.3.12.2. Financial performance
 - 8.3.12.3. Product benchmarking
 - 8.3.12.4. Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 List of Abbreviation

Table 2 North America microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 3 North America microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 4 North America microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 5 North America microneedle drug delivery systems market, by region, 2016 - 2028 (USD Million)

Table 6 U.S. microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 7 U.S. microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 8 U.S. microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 9 Canada microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 10 Canada microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 11 Canada microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 12 Europe microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 13 Europe microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 14 Europe microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 15 Europe microneedle drug delivery systems market, by region, 2016 - 2028 (USD Million)

Table 16 Germany microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 17 Germany microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 18 Germany microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 19 U.K. microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 20 U.K. microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 21 U.K. microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 22 France microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 23 France microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 24 France microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 25 Italy microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 26 Italy microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 27 Italy microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 28 Spain microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 29 Spain microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 30 Spain microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 31 APAC microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 32 APAC microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 33 APAC microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 34 APAC microneedle drug delivery systems market, by region, 2016 - 2028 (USD Million)

Table 35 China microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 36 China microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 37 China microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 38 Japan microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Million)

Table 39 Japan microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 40 Japan microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 41 India microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 42 India microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 43 India microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 44 Thailand microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 45 Thailand microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 46 Thailand microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 47 South Korea microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 48 South Korea microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 49 South Korea microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 50 Latin America microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 51 Latin America microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 52 Latin America microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 53 Latin America microneedle drug delivery systems market, by region, 2016 - 2028 (USD Million)

Table 54 Brazil microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 55 Brazil microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 56 Brazil microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 57 Mexico microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 58 Mexico microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 59 Mexico microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 60 Argentina microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 61 Argentina microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 62 Argentina microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 63 Colombia microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 64 Colombia microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 65 Colombia microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 66 Middle East and Africa microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 67 Middle East and Africa microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 68 Middle East and Africa microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 69 Middle East and Africa microneedle drug delivery systems market, by region, 2016 - 2028 (USD Million)

Table 70 South Africa microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 71 South Africa microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 72 South Africa microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 73 Saudi Arabia microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 74 Saudi Arabia microneedle drug delivery systems market, by material, 2016 - 2028 (USD Million)

Table 75 Saudi Arabia microneedle drug delivery systems market, by application, 2016 - 2028 (USD Million)

Table 76 UAE microneedle drug delivery systems market, by type, 2016 - 2028 (USD Million)

Table 77 UAE microneedle drug delivery systems market, by material, 2016 - 2028

(USD Million)

Table 78 UAE microneedle drug delivery systems market, by application, 2016 - 2028

(USD Million)

LIST OF FIGURE

- Fig. 1 Market research process
- Fig. 2 Data triangulation techniques
- Fig. 3 Primary research pattern
- Fig. 4 Primary interviews in North America
- Fig. 5 Primary interviews in Europe
- Fig. 6 Primary interviews in APAC
- Fig. 7 Primary interviews in Latin America
- Fig. 8 Primary interviews in MEA
- Fig. 9 Market research approaches
- Fig. 10 Value-chain-based sizing & forecasting
- Fig. 11 QFD modeling for market share assessment
- Fig. 12 Market formulation & validation
- Fig. 13 Microneedle Drug Delivery Systems : market outlook
- Fig. 14 Microneedle Drug Delivery Systems competitive insights
- Fig. 15 Parent market outlook
- Fig. 16 Related/ancillary market outlook
- Fig. 17 Penetration and growth prospect mapping
- Fig. 18 Industry value chain analysis
- Fig. 19 Microneedle drug delivery systems market driver impact
- Fig. 20 Microneedle drug delivery systems market restraint impact
- Fig. 21 Microneedle drug delivery systems market strategic initiatives analysis
- Fig. 22 Microneedle drug delivery systems market: type movement analysis
- Fig. 23 Microneedle drug delivery systems market: type outlook and key takeaways
- Fig. 24 Solid market estimates and forecast, 2016 - 2028
- Fig. 25 Hollow market estimates and forecast, 2016 - 2028
- Fig. 26 Dissolving market estimates and forecast, 2016 - 2028
- Fig. 27 Coated market estimates and forecast, 2016 - 2028
- Fig. 28 Others market estimates and forecast, 2016 - 2028
- Fig. 29 Microneedle drug delivery systems market: material movement analysis
- Fig. 30 Microneedle drug delivery systems market: material outlook and key takeaways
- Fig. 31 Silicon market estimates and forecast, 2016 - 2028
- Fig. 32 Metal market estimates and forecast, 2016 - 2028
- Fig. 33 Polymer market estimates and forecast, 2016 - 2028

- Fig. 34 Others market estimates and forecast, 2016 - 2028
- Fig. 35 Microneedle drug delivery systems market: application movement analysis
- Fig. 36 Microneedle drug delivery systems market: application outlook and key takeaways
- Fig. 37 Dermatology market estimates and forecast, 2016 - 2028
- Fig. 38 Drug delivery market estimates and forecast, 2016 - 2028
- Fig. 39 Pain management market estimates and forecast, 2016 - 2028
- Fig. 40 Cancer therapy market estimates and forecast, 2016 - 2028
- Fig. 41 Vaccine delivery market estimates and forecast, 2016 - 2028
- Fig. 42 Others market estimates and forecast, 2016 - 2028
- Fig. 43 Global microneedle drug delivery systems market: regional movement analysis
- Fig. 44 Global microneedle drug delivery systems market: regional outlook and key takeaways
- Fig. 45 Global market share and leading players
- Fig. 46 North America market share and leading players
- Fig. 47 Europe market share and leading players
- Fig. 48 Asia Pacific market share and leading players
- Fig. 49 Latin America market share and leading players
- Fig. 50 Middle East & Africa market share and leading players
- Fig. 51 North America: SWOT
- Fig. 52 Europe SWOT
- Fig. 53 Asia Pacific SWOT
- Fig. 54 Latin America SWOT
- Fig. 55 MEA SWOT
- Fig. 56 North America, by country
- Fig. 57 North America
- Fig. 58 North America market estimates and forecast, 2016 - 2028
- Fig. 59 U.S.
- Fig. 60 U.S. market estimates and forecast, 2016 - 2028
- Fig. 61 Canada
- Fig. 62 Canada market estimates and forecast, 2016 - 2028
- Fig. 63 Europe
- Fig. 64 Europe market estimates and forecast, 2016 - 2028
- Fig. 65 U.K.
- Fig. 66 U.K. market estimates and forecast, 2016 - 2028
- Fig. 67 Germany
- Fig. 68 Germany market estimates and forecast, 2016 - 2028
- Fig. 69 France
- Fig. 70 France market estimates and forecast, 2016 - 2028

- Fig. 71 Italy
- Fig. 72 Italy market estimates and forecast, 2016 - 2028
- Fig. 73 Spain
- Fig. 74 Spain market estimates and forecast, 2016 - 2028
- Fig. 75 Asia Pacific
- Fig. 76 Asia Pacific market estimates and forecast, 2016 - 2028
- Fig. 77 China
- Fig. 78 China market estimates and forecast, 2016 - 2028
- Fig. 79 Japan
- Fig. 80 Japan market estimates and forecast, 2016 - 2028
- Fig. 81 India
- Fig. 82 India market estimates and forecast, 2016 - 2028
- Fig. 83 Thailand
- Fig. 84 Thailand market estimates and forecast, 2016 - 2028
- Fig. 85 South Korea
- Fig. 86 South Korea market estimates and forecast, 2016 - 2028
- Fig. 87 Latin America
- Fig. 88 Latin America market estimates and forecast, 2016 - 2028
- Fig. 89 Brazil
- Fig. 90 Brazil market estimates and forecast, 2016 - 2028
- Fig. 91 Mexico
- Fig. 92 Mexico market estimates and forecast, 2016 - 2028
- Fig. 93 Argentina
- Fig. 94 Argentina market estimates and forecast, 2016 - 2028
- Fig. 95 Colombia
- Fig. 96 Colombia market estimates and forecast, 2016 - 2028
- Fig. 97 Middle East and Africa
- Fig. 98 Middle East and Africa. market estimates and forecast, 2016 - 2028
- Fig. 99 Saudi Arabia
- Fig. 100 Saudi Arabia market estimates and forecast, 2016 - 2028
- Fig. 101 South Africa
- Fig. 102 South Africa market estimates and forecast, 2016 - 2028
- Fig. 103 UAE
- Fig. 104 UAE market estimates and forecast, 2016 - 2028
- Fig. 105 Participant categorization- Microneedle Drug Delivery Systems market
- Fig. 106 Market share of key market players- Microneedle drug delivery systems market

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