

# Microneedle Drug Delivery Systems Market Thrives on Rising Research and Vaccination Demand

*The Business Research Company's Microneedle Drug Delivery Systems Global Market Report 2023 – Market Size, Trends, And Global Forecast 2023-2032*

LONDON, GREATER LONDON, UK, November 28, 2023 /EINPresswire.com/ -- The global



Aesthetic Services Market  
Size, Share, Industry Trends  
And Forecast To 2032"

*The Business Research  
Company*

microneedle drug delivery systems market exhibited robust growth, surging from \$3.62 billion in 2022 to \$4.07 billion in 2023, representing an impressive Compound Annual Growth Rate (CAGR) of 12.4%. The market is poised for sustained expansion, with a projected size reaching \$7.84 billion by 2027, driven by an anticipated CAGR of 17.8%.

## Research and Vaccination Drive Market Growth

The surge in research activities and the increasing demand for vaccination processes are pivotal factors propelling the [growth of the microneedle drug delivery systems market](#). Microneedles are perceived as an alternative method for painless vaccine administration. Initially developed for flu and measles, microneedle patches are now being increasingly employed for delivering COVID-19 vaccines. Collaborative efforts, such as those by The University of Connecticut, Vaxess, and Verndari, utilize microneedles to deliver viral proteins into the skin, inducing an immune response. The global administration of over 3.98 billion vaccine doses across 180 countries until July 2021 underscores the heightened [demand for microneedle drug delivery technology](#) from government and health research and development bodies.

For a deeper understanding and strategic insights, refer to our comprehensive sample report: <https://www.thebusinessresearchcompany.com/sample.aspx?id=5338&type=smp>

## Key Players Shaping the Market Landscape

Major players contributing to the [dynamics of the microneedle drug delivery systems market](#) include 3M, Zosano Pharma, Becton-Dickinson Technologies, Nanopass Technologies, Corium, Valeritas, Microdermics, Theraject Inc., LTS Lohmann Therapie-Systeme AG, BioSerenTach (BT), Sorrento Therapeutics, Debiotech, Raphas Co. Ltd., QuadMedicine, SNvia, and

NanoBiosciences.

## Biodegradable Microneedles for Gene Delivery and Disease Treatment

The adoption of biodegradable microneedles for drug delivery patches is on the rise, particularly in local therapeutic gene delivery and the treatment of chronic diseases. These microneedles offer advantages such as improved efficacy, rapid delivery, customization, and enhanced performance. A group from the Terasaki Institute for Biomedical Innovation has been optimizing the release and performance of biodegradable patches, highlighting the potential for improved gene delivery with these innovative microneedles.

## Regional Dynamics and Market Segmentation

In 2022, North America emerged as the largest region in the microneedle drug delivery systems market, with Europe following as the second-largest region. The regions covered in the market report include Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

The global microneedle drug delivery systems market is segmented –

- 1) By Technology: Hollow, Porous, Solid, Other Technologies
- 2) By Application: Drug Delivery, Vaccine Delivery, Other Applications
- 3) By End-User: Diagnostics Laboratories, Life Sciences, Research Laboratories, Hospitals, Ambulatory Surgical Centers, Other End-Users

For comprehensive insights into market dynamics and future trends, please refer to the complete report:

<https://www.thebusinessresearchcompany.com/report/microneedle-drug-delivery-systems-global-market-report>

Microneedle Drug Delivery Systems Global Market Report 2023 from TBRC covers the following information:

- Market size data for the forecast period: Historical and Future
- Market analysis by region: Asia-Pacific, China, Western Europe, Eastern Europe, North America, USA, South America, Middle East and Africa.
- Market analysis by countries: Australia, Brazil, China, France, Germany, India, Indonesia, Japan, Russia, South Korea, UK, USA.

Trends, opportunities, strategies and so much more.

The Microneedle Drug Delivery Systems Global Market Report 2023 by The Business Research Company is the most comprehensive report that provides insights on microneedle drug delivery systems market size, microneedle drug delivery systems market drivers and trends, microneedle drug delivery systems market major players, microneedle drug delivery systems market



competitors' revenues, microneedle drug delivery systems market positioning, and microneedle drug delivery systems market growth across geographies. The microneedle drug delivery systems market report helps you gain in-depth insights on opportunities and strategies. Companies can leverage the data in the microneedle drug delivery systems market report and tap into segments with the highest growth potential.

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About The Business Research Company

The Business Research Company has published over 3000+ detailed industry reports, spanning over 6500+ market segments and 60 geographies. The reports draw on 1,500,000 datasets, extensive secondary research, and exclusive insights from interviews with industry leaders.

Global Market Model – Market Intelligence Database

The Global Market Model, The Business Research Company's flagship product, is a market intelligence platform covering various macroeconomic indicators and metrics across 60 geographies and 27 industries. The Global Market Model covers multi-layered datasets that help its users assess supply-demand gaps.

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