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# Needle Free Injections - Market Insights, Competitive Landscape and Market Forecast-2026

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## Abstracts

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Needle-Free Injections Market By Product Type (Fillable And Prefilled), By Technology (Jet-Based, Spring-Based, And Others), By Usability (Reusable And Disposable), By Application (Vaccine, Insulin, Dermatology, And Others), By End User (Hosptials, Clinics, Homecare Settings, And Others), by geography is expected to grow at a steady CAGR forecast till 2026 owing to the increased risk of communicable infections as a result of needle injuries and needle phobia among the population.

The Global Needle-Free Injection Systems Market was valued at USD 10.95 billion in 2020, growing at a CAGR of 14.15% during the forecast period from 2021 to 2026 to reach USD 24.12 billion by 2026. The demand for needle-free injection systems is witnessing a growth due to the rising prevalence of chronic diseases, expanding number of needle-stick injuries, increasing requirement of self-injection devices, growing number of vaccination programs, and technological innovation in product development, among other factors.

Needle-Free Injections Market Dynamics:

Needle-free injection technology encompasses a wide spectrum of technology that includes a wide variety of drug delivery systems which help in the administration of drugs through the skin using pressure combining different modes, pushing the drug through the skin, thereby eliminating the need for a hypodermic needle.

One of the major factors influencing the growth of the needle-free injections market is the rising number of needle stick injuries among patients and caregivers. As per the

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data provided by the World Health Organization (2019), globally more than two million occupational exposures to sharp injuries occur among 35 million healthcare workers annually.

According to the Centers for Disease Control and Prevention (CDC) and European Agency for Safety and Health at Work (EU-Occupation Safety and Health Administration) reports published in 2019, there are more than 385,000 and 1,000,000 needle stick injury cases annually among hospital healthcare workers in the United States and Europe, respectively.

Needle-stick injuries increase the risk of more than 20 types of blood-borne infectious diseases which include HIV, hepatitis C, and hepatitis B. In addition to becoming infected with a blood-borne pathogens, needle stick injuries may result in chronic diseases and also cause psychological effects. Furthermore, the management of needle stick and sharp injuries can be cost intensive. Therefore, owing to the abovementioned factors, there is a growing need for needle-free injection systems in the market which allow for the safe administration drugs and therapeutics as well improve the safety prospects of the healthcare providers, caregivers, and patients.

Moreover, the rising prevalence of chronic diseases, such as the diabetes is also one of the major factors aiding in the needle-free injections market growth.

According to the data provided by the International Diabetes Federation (IDF) Diabetes Atlas Ninth Edition 2019, there were approximately 463 million adults (20-79 years) suffering from diabetes across the globe. The figures are expected to reach to 700 million by 2045. It further stated that over 20 million live births (1 in 6 live births) are affected by diabetes during pregnancy. Moreover, 374 million people are at increased risk of developing type 2 diabetes. In addition to abovementioned facts, as per IDF, an estimated number of 223 million women (20-79 years) living with diabetes. This number is projected to increase to 343 million by 2045.

People suffering from diabetes require regular administration of insulin as one of their key treatment regimens. Many diabetes patients require multiple daily doses of insulin, and often experience anxiety and pain associated with injections. Needle-free injections offer a virtually painless method for the administration of insulin by themselves in a precise manner and thereby improving in the adherence of treatment and compliance by patients.

Moreover, the increased focused on providing COVID-19 vaccines to majority of the

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population has also resulted in the increased demand for needle free injection devices as many pharmaceutical companies are entering into partnerships with needle-free injections manufacturers for expanding their customer reach.

Therefore, the rising prevalence of chronic diseases, increasing number of needle stick injuries, coupled with the growing demand for safer self-injection devices are projected to drive the needle-free injections market growth.

However, higher requirement for training and device maintenance, limitations in the route of administration, and limitations in the variation in the design size may prove to be certain restraints to the needle-free injections market growth.

Needle-Free Injections Market Segment Analysis:

Needle-Free Injections market by Product Type (Fillable and Prefilled), by Technology (Jet-Based, Spring-Based, and Others), by Usability (Reusable and Disposable), by Application (Vaccine, Insulin, Dermatology, And Others), by End User (Hospitals, Clinics, Homecare Settings, and Others), and by Geography (North America, Europe, Asia-Pacific, and Rest of the World).

In the application segment of the needle-free injections market, the insulin delivery needle-free injections are expected to account for the significant share in the market during the forecast period. This can be attributed to the rising prevalence of diabetic population across the globe. Moreover, diabetics require multiple doses of insulin in a day, which can be a daunting process for patients in case of using conventional syringes and needles for insulin administration. These devices aid in the easy administration of insulin through the nozzle orifice, which results in the generation of a fine stream of insulin. This stream then easily penetrates the skin. Needle-free insulin injection systems offer the least resistant path for insulin administration, thereby facilitating in the even spreading of the insulin in the subcutaneous layer.

Therefore, Needle-free injection devices for insulin administration are gaining popularity and are more extensively used than for other applications owing to the above stated reason.

North America is expected to dominate the Overall Needle-Free Injections Market:

Among all the regions, North America is expected to account for the largest share in the needle-free injections market. The growing number of chronic diseases, more focus on

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the vaccination programs, and access to better healthcare infrastructure along with the presence of major market players in the region are predicted to be the major influencing factors in driving the overall growth of the needle free injections systems market over the forecast period.

As per the data provided by the Centers for Disease Control and Prevention, Flu activity was unusually low throughout the 2020-2021 flu season both in the United States and globally, despite high levels of testing. During September 28, 2020–May 22, 2021 in the United States, 1,675 (0.2%) of 818,939 respiratory specimens tested by U.S. clinical laboratories were positive for an influenza virus. Even though the number of cases of influenza were low in the country in the said period, the CDC works each year to increase the number of people who receive a flu vaccine and eliminate barriers to vaccination.

Needle-free injection systems are also being popularly used in the administration of different vaccines including influenza vaccines. As flu vaccines are also commonly administered in pediatric patients as well, these systems help in the easy administration of vaccines in people suffering from needle phobia, and other apprehensions. One example of this is the PharmaJet Stratis Needle-Free Injector which is the first needleless intramuscular Jet Injector approved by the US Food and Drug Administration for the delivery of an influenza vaccine.

Moreover, the well-established healthcare infrastructure in the country which can be supported by the high per capita healthcare expenditure in the country as well as the presence of highly aware patient population further encourages people to opt for such devices.

In August 2021, Scancell Holdings plc, a developer of novel immunotherapies announced a partnership with PharmaJEet for the utilization of PharmaJet’s needle-free injection systems for the administration of its two SARS-CoV-2 vaccine candidates, SCOV1 and SCOV2, in its COVIDITY phase 1 clinical trial (COVIDITY-001). SCOV1 and SCOV2.

Moreover, the increasing collaborations between the needle free injection devices manufacturers and pharmaceutical companies in the region are further to drive the market needle free injections market in the United States, and therefore in North America.

Needle-Free Injections Market Key Players:

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Some of the key market players operating in the needle-free injection systems market includes IntegriMedical LLC, INJEX Pharma GmbH, PharmaJet Corporation, CrossJect, European Pharma Group BV, National Medical Products Inc, Akra DermaJet, Meika Medical Co, Basco India., Mystic Pharmaceuticals Inc, Technologies M?dicales Internationales (MIT Canada) Inc., INOVIO Pharmaceuticals, MADA MEDICAL PRODUCTS INC., Portal Instruments, D'Antonio Consultants International, Inc and others.

Recent Developmental Activities in Needle-Free Injections Market:

In August 2021, PharmaJet and their partner Zydus Cadila announced the emergency Use Authorization (EUA) from the Drug Controller General of India (DCGI) for ZyCoV-D the world's first Plasmid DNA Vaccine for COVID-19. The vaccine- ZyCoV-D is exclusively administered by the deployment of the PharmaJet Tropis® Needle-free Injection System.

In October 2020, PharmaJet's Needleless vaccine injector was chosen for the delivery of one of the COVID-19 vaccines- the University of Cambridge's phase 1 trial of DIOSynVax's candidate. The trial will test delivery of the vaccine through the skin without the use of needles.

Key Takeaways from the Needle-Free Injections Market Report Study

Market size analysis for current needle-free injections market size (2020), and market forecast for 5 years (2021-2026)

The effect of the COVID-19 pandemic on this market is significant. To capture and analyze suitable indicators, our experts are closely watching the needle-free injections market.

Top key product/services/technology developments, merger, acquisition, partnership, joint venture happened for last 3 years

Key companies dominating the global needle-free injections market

Various opportunities available for the other competitor in the needle-free injections market space.

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What are the top performing segments in 2020? How these segments will perform in 2026.

Which is the top-performing regions and countries in the current needle-free injections market scenario?

Which are the regions and countries where companies should have concentrated on opportunities for needle-free injections market growth in the coming future?

Target Audience who can be benefited from this Needle-Free Injections Market Report Study

Needle free injection systems products providers

Research organizations and consulting companies

Needle free injection systems -related organization, association, forum, and other alliances

Government and corporate offices

Start-up companies, venture capitalists, and private equity firms

Distributors and Traders dealing in needle-free injections market

Various End-users who want to know more about the needle-free injections market and latest technological developments in the needle-free injections market

Frequently Asked Questions for Needle-Free Injections Market:

1. What is a Needle Free Injection System?

Needle-free injection technology encompasses a wide spectrum of technology that includes a wide variety of drug delivery systems which help in the administration of drugs through the skin using pressure combining different modes, pushing the drug through the skin, thereby eliminating the need for a hypodermic needle.

2. What is the market for Global Needle-Free Injections?

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Global Needle-Free Injection Systems Market was valued at USD 10.95 billion in 2020, growing at a CAGR of 14.15% during the forecast period from 2021 to 2026 to reach USD 24.12 billion by 2026.

3. What are the drivers for Global Needle-Free Injections Market?

The major drivers of the global needle-free injections market growth are rising prevalence of chronic diseases, increasing number of needle stack and sharp injuries, , rising number of trauma cases, among other factors.

4. What are the key players operating in Global Needle-Free Injections Market?

Some of the key market players operating in the needle-free injection systems market includes IntegriMedical LLC, INJEX Pharma GmbH, PharmaJet Corporation, CrossJect, European Pharma Group BV, National Medical Products Inc, Akra DermaJet, Meika Medical Co, Basco India., Mystic Pharmaceuticals Inc, Technologies M?dicales Internationales (MIT Canada) Inc., INOVIO Pharmaceuticals, MADA MEDICAL PRODUCTS INC., Portal Instruments, D'Antonio Consultants International, Inc and others.

5. What regions has the highest share in Needle-Free Injections market?

North America is expected to dominate the overall Needle-Free Injections market during the forecast period, 2021 to 2026. The accumulation of the highest revenue in the market can be ascribed to the rising prevalence of chronic diseases, increased focus on vaccination programs, improving the safety for healthcare providers, and the increasing collaborations between key market players in the region.

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