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Needle-Free Injection System Market by Technology (Jet, Spring, Micro-array Patch), by Product (Prefilled, Fillable), Type of Medication (Liquid, Powder), Application (Vaccination, Dermatology), End Users (Hospital, Homecare) - Global Forecast to 2026

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Abstracts

MarketsandMarkets expects the needle-free injection system market is projected to reach USD 272 million by 2026 from USD 124 million in 2021, at a CAGR of 17.0% from 2020 to 2026. Growth in this market is mainly driven by technological advancements, increasing demand for self-injection devices, and the rising incidence of chronic diseases. With the rising geriatric population and the increasing prevalence of chronic diseases, the patient volume has increased significantly globally. This, in turn, is creating a greater demand for advanced and effective treatment approaches, including the use of needle-free injection systems. Moreover, the high adoption of advanced drug delivery technologies across the globe is supporting the growth of this market. On the other hand, limitations with large volume and intravenous administration systems are the key factors restraining the growth of the market

In this report, the needle-free injection system market is segmented on the basis of product, type, application, technology, site of delivery, end user, and region.

“fillable needle-free injectors segment accounted for the largest share in the needle-free injection system market.”

Based on product, the needle-free injection system market is segmented into fillable and pre-filled needle-free injectors. In 2020, the fillable needle-free injectors accounted for the larger share of 63.4% of the needle-free injection system market. This product segment is projected to reach USD 179.7 million by 2026 from 79.4 million in 2021, at a

CAGR of 17.7 % during the forecast period. The large share of this segment can be attributed to the increasing application of needle-free injections in vaccination, insulin, and other drug delivery.

“Jet-based needle-free injectors segment accounted for the largest share in the needle-free injection system market.”

On the basis of technology, the needle-free injection system market can be segmented into jet-based, spring-based, microarray patches and other injectors. In 2020, the jet-based needle-free injectors segment is expected to command the largest share of 67.4% of the global needle-free injection system devices market by technology. This segment is projected to reach USD 196.9 million by 2026 from USD 71.4 million in 2020, at a CAGR of 18.3% during the forecast period. The large share of this segment can be attributed to benefits associated with this technology, including rapid drug administration, improved dosage accuracy, better diffusion into the tissue, and a faster response rate.

“liquid-based injectors segment accounted for the largest share in the needle-free injection system market.”

Based on the type, the needle-free injection system market is segmented into liquid-based, powder-based and projectile/depot-based needle-free injectors. The liquid-based segment accounted for the largest share of 70.9% of the needle-free injection system market in 2020. The large share of this segment can be attributed to the ability of a liquid jet, which is stronger enough to penetrate the skin and the underlying fat layer without harming the skin or the integrity of the drug molecule.

“subcutaneous injectors segment accounted for the largest share in the needle-free injection system market.”

Based on site of delivery, the needle-free injection system market is segmented into subcutaneous, intramuscular and intradermal. In 2020, the subcutaneous injectors segment is estimated to account for the largest share of 48% of the needle-free injection system market by the site of delivery. The higher growth of this segment is due to its greater effectiveness as the drug moves into the capillaries when it is injected and from there, it is carried to the bloodstream.

“Fillable segment accounted for the largest share in the needle-free injection system market.”

Based on applications, the needle-free injection system market is segmented into vaccine delivery, insulin delivery, oncology, pain management, dermatology, and other applications. In 2020, vaccine delivery is estimated to account for the largest share of 32.8% of the needle-free injection system market by application. The rising prevalence of chronic diseases and infectious diseases worldwide has increased the demand for vaccination in the considered year and the increasing demand for patient-centric care are the major factors driving the growth of the needle-free injection market by application.

“hospitals & clinics segment accounted for the largest share in the needle-free injection system market.”

Based on end users, the needle-free injection market is segmented into hospitals & clinics, home care settings, research laboratories, pharmaceutical and biotechnology companies, and other end users. The hospitals & clinics segment accounted for the largest market share of 61.0% in 2020. Factors such as technological advancements and an increase in demand for vaccination are driving the growth of the hospitals & clinics segment.

“North America accounted segment accounted for the largest share in the needle-free injection system market.”

On the basis of region, the needle-free injection system market is segmented into North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. In 2020, North America accounted for the largest share of 58% of the needle-free injection market, followed by Europe, the Asia Pacific (APAC), Latin America, and the Middle East & Africa. However, the APAC region is expected to grow at the highest CAGR of 18.7% during the forecast period. The rapidly developing healthcare industry in China and India, growth in the aging population, rising life expectancy, rising per capita income, increasing investments in the region by key market players, the expansion of private-sector hospitals & clinics to rural areas, the availability of low-cost labor for manufacturing, the presence of a favorable regulatory environment, and growing demand for self-injectable devices testing are supporting market growth in the APAC region.

Key Market Players:

The prominent players in global needle-free injection market include PharmaJet (US), Portal Instruments (US), Medical International Technology, Inc (MIT) (US), NuGen Medical Devices (Canada), Crossject SA (US), and Bioject Medical Technologies (US).

A breakdown of the primary participants (supply-side) for the needle-free injection system market referred to for this report is provided below:

By Company Type: Tier 1–5%, Tier 2–15%, and Tier 3–80%

By Designation: C-level–45%, Director Level–25%, and Others–30%

By Region: North America–36%, Europe–26%, Asia Pacific–21%, Latin America-10%, and Middle East and Africa– 7%

Research Coverage:

The market study covers the needle-free injection system market across various segments. It aims at estimating the market size and the growth potential of this market across different segments by product, by type, by application, by technology, by site of delivery, by end user, and by region. The study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants in this market and provide information regarding the closest approximations of the needle-free injection system market and its segments. This report will help stakeholders understand the competitive landscape, gain insights to position their businesses better, and plan suitable go-to-market strategies. The report will also help stakeholders in understanding the pulse of the market and gaining information on key market drivers, restraints, opportunities, and challenges.

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