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Intranasal Drug Delivery Devices Market By System (Metered Dose, Multi-Dose Systems, Unit-Dose Systems) , By Container (Non-Pressurized Containers, Pressurized Containers) By Application (Chronic Obstructive Pulmonary Disease, Rhinitis, Cystic Fibrosis, Nasal Congestion, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The intranasal drug delivery devices market was valued at $1.7 billion in 2023, and is projected to reach $3.8 billion by 2033, growing at a CAGR of 8.7% from 2024 to 2033.

Intranasal drug delivery devices are medical devices designed to administer therapeutic agents through the nasal cavity. This route of administration provides a non-invasive and efficient means to deliver drugs directly into the systemic circulation or target the central nervous system, bypassing the gastrointestinal tract and first-pass metabolism in the liver. Intranasal devices commonly include nasal sprays, nebulizers, and powder dispensers, tailored to enhance drug absorption through the nasal mucosa.

The growth of the global intranasal drug delivery devices market is driven by alarming increase in prevalence of respiratory diseases, allergies, migraines as well as conditions requiring rapid drug action, such as epilepsy and opioid overdose. According to a study published by the Institute for Health Metrics and Evaluation—a public health research institute—chronic respiratory diseases were responsible for 4.0 million deaths with a prevalence of 454.6 million cases in 2019, ranking as the third leading cause of death. In addition, surge in demand for non-invasive drug delivery methods among patients is

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boosting the adoption of intranasal devices for both chronic and acute conditions. Moreover, intranasal drug delivery is effective in targeting the central nervous system, as it allows drugs to bypass the blood-brain barrier. This is fostering research into treatments for neurological disorders, such as Alzheimer's and Parkinson's disease. Furthermore, rise of home healthcare and self-medication trends is driving the demand for easy-to-use drug delivery systems, including intranasal devices, which significantly fosters the market growth. However, frequent use of intranasal devices may cause irritation, dryness, or other discomfort in the nasal mucosa, which limits their adoption, thereby hampering the market growth. In addition, not all drugs are suitable for intranasal delivery due to stability issues or low permeability through the nasal mucosa, which restricts the range of applications for these devices. On the contrary, innovations such as metered-dose nasal sprays and needle-free devices improve drug delivery precision and user-friendliness. Smart devices integrated with sensors for dose tracking are also emerging, enhancing patient adherence. Such developments are expected to offer remunerative opportunities for the expansion of the global market during the forecast.

The intranasal drug delivery devices industry is segmented into system, container, application, and region. By system, the market is segregated into metered dose, multi-dose systems, and unit-dose systems. On the basis of containers, it is bifurcated into non-pressurized containers and pressurized containers. Depending on application, it is divided into chronic obstructive pulmonary disease (COPD) , rhinitis, cystic fibrosis, nasal congestion, asthma, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By system, the multi-dose systems segment is expected to dominate the market from 2024 to 2033.

On the basis of container, the non-pressurized system containers segment is anticipated to exhibit the highest growth during the forecast period.

Depending on application, the asthma segment is projected to grow at a notable pace in the near future.

Region wise, North America held the largest market share in the intranasal drug delivery devices market in 2023, and is expected to dominate the market during the forecast period.

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Competition Analysis

Competitive analysis and profiles of the major players in the global intranasal drug delivery devices market include AptarGroup, Inc., Teleflex Incorporated, Nemera, Becton, Dickinson and Company, OptiNose, Inc., GlaxoSmithKline Plc., AstraZeneca, Kurve Technology, Inc., Johnson & Johnson, and Merck & Co., Inc. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to sustain the intense competition and gain a strong foothold in the global market.

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Historic market data

Import Export Analysis/Data

Key Market Segments

By System

Metered Dose

Multi-Dose Systems

Unit-Dose Systems

By Container

Non-Pressurized Containers

Pressurized Containers

By Application

Chronic Obstructive Pulmonary Disease

Rhinitis

Cystic Fibrosis

Nasal Congestion

Others

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By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- France
- Germany
- Italy
- Spain
- UK
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA

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Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

AptarGroup, Inc.

Teleflex Incorporated

nemera

Becton, Dickinson and Company

OptiNose, Inc.

GlaxoSmithKline plc.

AstraZeneca

Kurve Technology, Inc.

Johnson & Johnson

Merck & Co., Inc.

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