

# Intranasal Drug Delivery Devices Market Outlook 2025-2034: Market Share, and Growth Analysis By Product (Powder Delivery Device, Liquid Delivery Device, Pressurized Metered-Dose Inhalers, Other Products), By Dosage (Unit-Dose, Multi-Dose), By Application, By End User

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## Abstracts

The Intranasal Drug Delivery Devices Market is valued at USD 53.2 billion in 2025 and is projected to grow at a CAGR of 9.2% to reach USD 117.3 billion by 2034. The Intranasal Drug Delivery Devices Market offers a non-invasive, rapid, and patient-friendly method for delivering therapeutic agents through the nasal mucosa. This route is especially valuable for delivering drugs that require fast systemic absorption or direct access to the central nervous system, bypassing the blood-brain barrier. Applications include pain management, seizure rescue, hormone therapy, allergy relief, and more recently, vaccines and psychiatric medications. Devices range from metered-dose sprays to soft mist inhalers and nasal powder dispensers, often featuring precision dosing and portability. With rising demand for self-administered, needle-free therapies and increasing awareness of patient compliance challenges, intranasal delivery is gaining favor across both emergency and chronic care settings. As drug developers formulate molecules tailored for nasal absorption, device manufacturers are innovating to optimize drug deposition, reduce irritation, and enhance bioavailability, especially for pediatric, geriatric, and needle-phobic populations. The market saw robust activity, particularly in emergency and central nervous system applications. FDA approvals and market expansions for intranasal naloxone and benzodiazepine rescue therapies drove clinical adoption. Devices with user-friendly designs and intuitive mechanisms gained popularity, with pharma-device collaborations streamlining co-development. Aptar Pharma and Kurve Technology released advanced intranasal platforms supporting tight

dose control and directional delivery for CNS-targeted agents. The intranasal delivery route was also explored for COVID-19 boosters and flu vaccines, prompting increased investment in mucosal immunology. Additionally, allergy treatment and hormone therapies, including intranasal oxytocin and calcitonin, were reformulated into more stable, travel-friendly nasal sprays. Remote monitoring and smart devices capable of tracking usage were piloted in clinical trials. With growing recognition of the intranasal route's speed, safety, and accessibility, regulatory bodies showed increased receptiveness to fast-track reviews of innovative formulations. The intranasal drug delivery devices market is expected to grow significantly with the development of biologic and peptide-based drugs for nasal administration. Innovations will include thermosensitive gels and mucoadhesive systems that prolong nasal residence time and improve absorption. Nasal vaccines for respiratory viruses and neurological disorders will enter later-stage trials, with intranasal platforms playing a pivotal role in pandemic preparedness strategies. Device personalization—based on nasal cavity anatomy, age, or flow rate—will enhance user experience and improve clinical outcomes. Integration of AI for dose timing, adherence tracking, and remote patient support will expand, particularly in behavioral and pain management therapies. Regulatory harmonization across markets will allow global launches of advanced combination products. As the healthcare system shifts toward decentralization and home-based care, intranasal delivery will offer a safe, effective, and scalable option for multiple therapeutic areas, anchoring its long-term market potential.

### Key Insights Intranasal Drug Delivery Devices Market

OG Analysis highlights the rise of intranasal therapies for emergency care, particularly for opioid overdose reversal and seizure management, where speed and ease of use are critical in out-of-hospital settings.

Smart intranasal delivery devices with digital adherence tracking and feedback features are trending, enabling better patient engagement and physician oversight in chronic therapies, especially for hormonal and psychiatric conditions.

According to OG Analysis, intranasal vaccines for flu, COVID-19, and RSV are advancing in development pipelines, driven by demand for mucosal immunity and non-injectable delivery in global immunization campaigns.

OG Analysis observes increasing investment in formulations for CNS drugs delivered via the nasal route, leveraging its ability to bypass the blood-brain

barrier and rapidly deliver active compounds to brain tissues.

Personalized intranasal device design based on patient-specific anatomy and flow dynamics is emerging, aiming to improve drug deposition and treatment efficacy across age groups and clinical conditions.

OG Analysis identifies growing preference for non-invasive, self-administered therapies as a major driver, particularly among patients seeking convenient alternatives to injections or oral medications in chronic and acute conditions.

Rising incidence of opioid overdoses and epilepsy-related emergencies is boosting demand for rapid-onset intranasal rescue medications that can be administered safely by laypersons, according to OG Analysis.

OG Analysis notes that technological innovation in nasal spray devices—such as dose metering, anti-clog features, and breath-actuation—is enhancing usability and clinical confidence in home-based care settings.

Increased research into mucosal immunity and central nervous system drug delivery is supporting broader pharmaceutical interest in developing nasal formulations for previously injection-only biologics and peptides, says OG Analysis.

OG Analysis points out that variability in nasal anatomy, mucosal health, and patient technique can affect drug absorption and bioavailability, complicating standardization and requiring patient education or device customization.

According to OG Analysis, formulation stability—especially for peptides and biologics—remains a challenge, with many compounds susceptible to degradation or requiring complex carrier systems for intranasal delivery.

## Intranasal Drug Delivery Devices Market Segmentation

### By Product

Powder Delivery Device

Liquid Delivery Device

Pressurized Metered-Dose Inhalers

Other Products

### By Dosage

Unit-Dose

Multi-Dose

### By Application

Chronic Obstructive Pulmonary Disease (COPD)

Rhinitis

Cystic Fibrosis

Nasal Congestion

Asthma

Other Applications

### By End User

Hospitals

Clinics

Homecare

Other End Users

## Key Companies Analysed

Johnson and Johnson Inc.

Merck and Co.Inc.

Novartis AG

AstraZeneca plc.

GlaxoSmithKline Plc

3M Company

Becton

Dickinson and Company

Teva Pharmaceutical Industries Ltd.

AptarGroup Inc.

West Pharmaceutical Services Inc.

Teleflex Incorporated

Recipharm AB

Nemera Development S.A.

Consort Medical plc.

Vectura Group plc

Douglas Pharmaceuticals Ltd.

Avanir Pharmaceuticals

OptiNoset Inc.

Flamel Technologies

Aegis Therapeutics LLC

Sonoma Pharmaceuticals

PendoPharm Inc.

Kurve Technology Inc.

Impel NeuroPharma

Impexium Medical Products

B.F. Ascher and Company Inc.

ENT Technologies Pty. Ltd.

Neurelis Inc.

Generex Biotechnology Corporation

## Intranasal Drug Delivery Devices Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Intranasal Drug Delivery Devices Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

### Countries Covered

North America — Intranasal Drug Delivery Devices market data and outlook to 2034

United States

Canada

Mexico

Europe — Intranasal Drug Delivery Devices market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

## Asia-Pacific — Intranasal Drug Delivery Devices market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

## Middle East and Africa — Intranasal Drug Delivery Devices market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

## South and Central America — Intranasal Drug Delivery Devices market data and outlook to 2034

Brazil

Argentina

Chile

## Peru

*\* We can include data and analysis of additional countries on demand.*

### Research Methodology

This study combines primary inputs from industry experts across the Intranasal Drug Delivery Devices value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Intranasal Drug Delivery Devices industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

### Your Key Takeaways from the Intranasal Drug Delivery Devices Market Report

Global Intranasal Drug Delivery Devices market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Intranasal Drug Delivery Devices trade, costs, and supply chains

Intranasal Drug Delivery Devices market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Intranasal Drug Delivery Devices market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Intranasal Drug Delivery Devices market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Intranasal Drug Delivery Devices supply chain analysis

Intranasal Drug Delivery Devices trade analysis, Intranasal Drug Delivery Devices market price analysis, and Intranasal Drug Delivery Devices supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Intranasal Drug Delivery Devices market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the

impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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