

U.S. Inhalation Anesthesia Market Size, Share & Trends Analysis Report By Drug (Sevoflurane, Desflurane), By Application (Induction, Maintenance), By End Use (Hospitals, ASC), And Segment Forecasts, 2025 - 2030

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Abstracts

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U.S. Inhalation Anesthesia Market Growth & Trends

The U.S. inhalation anesthesia market size is anticipated to reach USD 1.06 billion by 2030, growing at a CAGR of 6.1% during the forecast period, according to a new report by Grand View Research, Inc. The market's growth is attributed to the rising demand for shorter hospital stays and increasing surgical procedures. Inhalation anesthesia offers higher patient outcomes compared to intravenous anesthesia, as administering anesthetic agents through the respiratory tract allows for more controllable, effective sedation that is both cost-effective and safe.

Inhalation anesthesia creates a reversible state of unconsciousness and loss of sensation, making it essential for pain-free surgeries. It is widely used for general anesthesia in various surgical settings, especially in outpatient, pediatric, and needle-phobic patients. Inhalation anesthetics are also valuable in diagnostic procedures and can be utilized outside the operating room for ICU sedation or conditions such as status asthmaticus. In addition, agents such as nitrous oxide provide moderate sedation in dental settings.

According to the National Library of Medicine, around 40 to 50 million major surgeries are conducted annually in the U.S. Inhalation anesthesia is critical for cancer diagnoses

and biopsies, offering comfort during these procedures. The National Cancer Institute estimates that in 2024, about 2,001,140 new cancer cases will be diagnosed in the U.S., including 14,910 cases in children and adolescents. This rising cancer incidence is expected to boost the demand for inhalation anesthesia, particularly in pediatric and adult oncology care.

U.S. Inhalation Anesthesia Market Report Highlights

Based on drug, the sevoflurane drug dominated the U.S. inhalation anesthesia industry, accounting for the largest revenue share of 75.5% in 2024. The demand is driven by its popularity in day surgery due to the quick attainment of deep anesthesia and faster recovery times.

The isoflurane drug segment is expected to grow significantly over the forecast period.

Based on application, the maintenance phase dominated the market with the largest revenue share in 2024. However, the induction phase is expected to grow at a significant CAGR over the forecast period.

Based on end use, the hospitals segment led the U.S. inhalation anesthesia industry with the largest revenue share in 2024.

The Ambulatory Surgical Centers (ASC) end use segment is expected to grow at the fastest CAGR of 7.0% over the forecast period.

The growing number of surgical procedures, including orthopedics, ophthalmology, gastroenterology, ENT, cosmetic surgeries, urology, gynecology, and podiatry, in ASCs is expected to drive the demand for inhalation anesthesia in the coming years.

Companies Mentioned

Baxter

AbbVie Inc.

Piramal Enterprises Ltd.

Hikma Pharmaceuticals PLC

Halocarbon, LLC

Sandoz Group AG
Fresenius Kabi AG

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Segment Definitions
 - 1.2.1. Drug
 - 1.2.2. Application
 - 1.2.3. End Use
- 1.3. Estimates and Forecast Timeline
- 1.4. Research Methodology
- 1.5. Information Procurement
 - 1.5.1. Purchased Database
 - 1.5.2. GVR's Internal Database
 - 1.5.3. Secondary Sources
 - 1.5.4. Primary Research
- 1.6. Information Analysis
 - 1.6.1. Data Analysis Models
- 1.7. Market Formulation & Data Visualization
- 1.8. Model Details
 - 1.8.1. Commodity Flow Analysis
- 1.9. List of Secondary Sources
- 1.10. Objectives

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot
- 2.2. Segment Snapshot
- 2.3. Competitive Landscape Snapshot

CHAPTER 3. U.S. INHALATION ANESTHESIA MARKET VARIABLES, TRENDS, & SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Market Dynamics
 - 3.2.1. Market Driver Analysis
 - 3.2.2. Market Restraint Analysis
- 3.3. Business Environment Analysis
 - 3.3.1. Industry Analysis - Porter's Five Forces Analysis

- 3.3.1.1. Supplier Power
- 3.3.1.2. Buyer Power
- 3.3.1.3. Substitution Threat
- 3.3.1.4. Threat of New Entrants
- 3.3.1.5. Competitive Rivalry
- 3.3.2. PESTLE Analysis

CHAPTER 4. U.S. INHALATION ANESTHESIA MARKET: SERVICE BUSINESS ANALYSIS

- 4.1. Drug Market Share, 2024 & 2030
- 4.2. Drug Segment Dashboard
- 4.3. Market Size & Forecasts and Trend Analysis, by Drug, 2018 to 2030 (USD Million)
- 4.4. Sevoflurane
 - 4.4.1. Sevoflurane Market, 2018 - 2030 (USD Million)
- 4.5. Desflurane
 - 4.5.1. Desflurane Market, 2018 - 2030 (USD Million)
- 4.6. Isoflurane
 - 4.6.1. Isoflurane Market, 2018 - 2030 (USD Million)
- 4.7. Others
 - 4.7.1. Others Market, 2018 - 2030 (USD Million)

CHAPTER 5. U.S. INHALATION ANESTHESIA MARKET: FORMULATION BUSINESS ANALYSIS

- 5.1. Application Market Share, 2024 & 2030
- 5.2. Application Segment Dashboard
- 5.3. Market Size & Forecasts and Trend Analysis, by Application, 2018 to 2030 (USD Million)
- 5.4. Induction
 - 5.4.1. Inhalation Anesthesia Market, for Induction, 2018 - 2030 (USD Million)
- 5.5. Maintenance
 - 5.5.1. Inhalation Anesthesia Market, for Maintenance, 2018 - 2030 (USD Million)

CHAPTER 6. U.S. INHALATION ANESTHESIA MARKET: END USE BUSINESS ANALYSIS

- 6.1. End Use Market Share, 2024 & 2030
- 6.2. End Use Segment Dashboard

6.3. Market Size & Forecasts and Trend Analysis, by End Use, 2018 to 2030 (USD Million)

6.4. Hospitals

6.4.1. Inhalation Anesthesia Market, in Hospitals, 2018 - 2030 (USD Million)

6.5. Ambulatory Surgical Centers (ASC)

6.5.1. Inhalation Anesthesia Market, in Ambulatory Surgical Centers, 2018 - 2030 (USD Million)

6.6. Others

6.6.1. Inhalation Anesthesia Market, in Others, 2018 - 2030 (USD Million)

CHAPTER 7. COMPETITIVE LANDSCAPE

7.1. Participant Overview

7.2. Company Market Position Analysis

7.3. Company Categorization

7.4. Strategy Mapping

7.5. Company Profiles/Listing

7.5.1. Baxter

7.5.1.1. Overview

7.5.1.2. Financial Performance

7.5.1.3. Product Benchmarking

7.5.1.4. Strategic Initiatives

7.5.2. AbbVie Inc.

7.5.2.1. Overview

7.5.2.2. Financial Performance

7.5.2.3. Product Benchmarking

7.5.2.4. Strategic Initiatives

7.5.3. Piramal Enterprises Ltd.

7.5.3.1. Overview

7.5.3.2. Financial Performance

7.5.3.3. Product Benchmarking

7.5.3.4. Strategic Initiatives

7.5.4. Hikma Pharmaceuticals PLC

7.5.4.1. Overview

7.5.4.2. Financial Performance

7.5.4.3. Product Benchmarking

7.5.4.4. Strategic Initiatives

7.5.5. Halocarbon, LLC

7.5.5.1. Overview

- 7.5.5.2. Financial Performance
- 7.5.5.3. Product Benchmarking
- 7.5.5.4. Strategic Initiatives
- 7.5.6. Sandoz Group AG
 - 7.5.6.1. Overview
 - 7.5.6.2. Financial Performance
 - 7.5.6.3. Product Benchmarking
 - 7.5.6.4. Strategic Initiatives
- 7.5.7. Fresenius Kabi AG
 - 7.5.7.1. Overview
 - 7.5.7.2. Financial Performance
 - 7.5.7.3. Product Benchmarking
 - 7.5.7.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of abbreviations

Table 3 U.S. inhalation anesthesia market, by drug, 2018 - 2030 (USD Million)

Table 4 U.S. inhalation anesthesia market, by application, 2018 - 2030 (USD Million)

Table 5 U.S. inhalation anesthesia market, by end use, 2018 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 U.S. inhalation anesthesia market segmentation
- Fig. 2 Market research process
- Fig. 3 Data triangulation techniques
- Fig. 4 Primary research pattern
- Fig. 5 Market research approaches
- Fig. 6 Value-chain-based sizing & forecasting
- Fig. 7 Market formulation & validation
- Fig. 8 Drug outlook (USD Million)
- Fig. 9 Application outlook (USD Million)
- Fig. 10 End use outlook (USD Million)
- Fig. 11 Competitive landscape
- Fig. 12 U.S. inhalation anesthesia market dynamics
- Fig. 13 U.S. inhalation anesthesia market: Porter's five forces analysis
- Fig. 14 U.S. inhalation anesthesia market: Pestle analysis
- Fig. 15 U.S. inhalation anesthesia market: Drug segment dashboard
- Fig. 16 U.S. inhalation anesthesia market: Drug market share analysis, 2024 & 2030
- Fig. 17 Sevoflurane market, 2018 - 2030 (USD Million)
- Fig. 18 Desflurane market, 2018 - 2030 (USD Million)
- Fig. 19 Isoflurane market, 2018 - 2030 (USD Million)
- Fig. 20 Other drug market, 2018 - 2030 (USD Million)
- Fig. 21 U.S. inhalation anesthesia market: Application segment dashboard
- Fig. 22 U.S. inhalation anesthesia market: Application market share analysis, 2024 & 2030
- Fig. 23 Induction U.S. inhalation anesthesia market, for induction, 2018 - 2030 (USD Million)
- Fig. 24 Induction U.S. inhalation anesthesia market, for maintenance, 2018 - 2030 (USD Million)
- Fig. 25 U.S. inhalation anesthesia market: End use segment dashboard
- Fig. 26 U.S. inhalation anesthesia market: End use market share analysis, 2024 & 2030
- Fig. 27 Induction U.S. inhalation anesthesia market, in Hospitals, 2018 - 2030 (USD Million)
- Fig. 28 Induction U.S. inhalation anesthesia market, in Ambulatory Surgical Centers, 2018 - 2030 (USD Million)
- Fig. 29 Induction U.S. inhalation anesthesia market, in Others, 2018 - 2030 (USD Million)

Fig. 30 Company categorization

Fig. 31 Company market position analysis

Fig. 32 Strategic framework

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