# Anesthesia Monitoring Devices Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 128 pages | Mordor Intelligence

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**Report description:**

The anesthesia monitoring devices market registered a CAGR of 10.6% during the forecast period, 2022-2027.

In the early phase of the pandemic, due to the increasing cases of COVID-19, all hospitals globally had canceled their scheduled and elective surgeries. Acute surgical emergencies were still inevitable and were being addressed in a timely and sensible manner. According to the report published by the British Journal of Surgery, in May 2020, an estimated 585,000 elective surgeries were postponed in the 12-week lockdown in India alone, and 28.4 million elective surgeries worldwide were expected to be canceled or postponed. Thus, the halt in surgical procedures is the major factor likely to hamper the usage of anesthesia monitoring devices.

The introduction of varied new monitoring techniques, like monitoring the depth of anesthesia, goal-directed fluid therapy, advanced neurological monitoring, improved warning device, and the technological advancements within the objective pain assessment are some advancements driving the global anesthesia monitoring devices market. Other factors driving the market include a rise in demand for pain-free surgeries and the development of automated record-keeping systems.

Diethyl ether was first used as general anesthesia over 150 years ago. Over the years of time, there have been several advances in anesthesia technology that have made many surgical techniques possible. According to an article published by Clevel and Clinic in December 2020, over the course of time, death rates attributable to anesthesia medical negligence decreased from one in 10,000 or 20,000 in the 1960-70s to one in 200,000 now, owing to more advanced training, proper patients monitoring, improved infrastructure, better equipment, and drug procurement.

The key market players have made several new advancements in the field of anesthesia technology which is driving the growth of

the market. For instance, in October 2020, Shenzhen Mindray Bio-Medical Electronics Co. Ltd introduced two anesthesia products in a virtual event, A8 and A9, which are the first devices to have a high flow nasal cannula integrated within the anesthesia machine. This has helped anesthetists by prolonging safe oxygenation levels, from 8 minutes to 30 minutes of safe oxygenated apnoea time.

Moreover, the Springer Link Journal's Article titled 'Estimation of the National Surgical Needs in India by Enumerating the Surgical Procedures in an Urban Community Under Universal Health Coverage' published in September 2020, estimated that around 3646 surgeries would be required per 100,000 Indian population per year. Also, one-third of these surgeries would be needed for the age group 30-49 years in the Indian population. The same source also reports that anesthesia management is highly required, such as surgical procedures, which is likely to drive the growth of the anesthesia monitoring device market globally.?

Key Highlights
The risks related to anesthetic care reduced considerably during the last decade because of technological advancement and automation, which played a big role in improving the security of patients. Increasing investments within the market, which are supporting the technological advancements in anesthesia machines and techniques, are having a significant impact on the market's growth, enabling faster deployment in the healthcare industry. Hence, due to the above-mentioned factors, the market studied is predicted to witness high growth over the forecast period.

Anesthesia Monitoring Devices Market Trends

Gas Monitor is Expected to Witness Steady Growth Over the Forecast Period

The anesthesia gas monitor is used to specify the agent being used and to quantify the amount of agent. The obtained information is displayed with waveforms and alphanumeric on the display monitor and is typically found in the operating room of hospitals or surgery centers. These devices can be either standalone or attached to patient multi-parameter monitors. ?

As per the updated article published in August 2020, titled Inhalational Anesthetic, the most commonly used anesthetic gases are halothane, nitrous oxide, isoflurane, sevoflurane, and desflurane. The most common adverse effect of the inhaled anesthetic agents is postoperative nausea and vomiting, along with malignant hyperthermia. In order to avoid these adverse conditions and administer sufficient anesthesia, anesthesia gas monitors are used widely around the world.?

The anesthetic gas monitoring systems are used in the monitoring of the potentially adverse conditions during the anesthetic surgical procedures, such as inadvertent agent overdose, pseudo awareness detection, error of a vaporizer filled with an incorrect agent, monitoring of uptake and distribution, and assurance that the desired agent concentration is being delivered, especially when low flow anesthesia is administered. These functions make gas monitors very crucial in the procedures where gas anesthesia is being used, which is a major factor in the growth of the studied segment.?

For example, Vamos and Vamos plus of Dragerwerk, Root monitoring system of Masimo, GE Datex-Ohmeda AS-3 Compact Anesthesia Gas Monitor, and others.?

The rising need for the anesthetic gas monitoring systems due to increasing surgical procedures around the world along with the new product launches, technological advancements and strategic expansion initiatives like mergers and acquisitions, and partnerships by the market players in the area are expected to boost the growth in the studied market.?

Thus, owing to the above-mentioned factors, the gas monitor segment in the anesthesia monitoring devices market is expected to grow over the forecast period of the study.?

The United States Expected to Dominate the Market Over the Forecast Period

The United States is anticipated to observe a continual increase in the number of diseases, like obesity, cardiovascular problems, and differing types of cancers, which has contributed to the rise in the number of surgeries of both open and minimally invasive types. The increase in the number of minimally invasive surgeries for chronic diseases has helped the expansion of the anesthesia monitoring devices market. According to the American Society of Plastic Surgeons 2020, 18.1 million cosmetic procedures, 1.8 million cosmetic surgical procedures, 16.3 million cosmetic minimally-invasive procedures, and 5.9 million reconstructive procedures were performed in 2019 in the United States.

Moreover, frequent approvals and launches in the country are also expected to drive the market study. For instance, in August 2020, Getinge received the 510(k) clearance from the FDA for its Flow-c and Flow-e devices, two portable and customizable anesthesia workstations. The Flow-c is a small-sized, movable workstation that provides high-performance ventilation, precision agent dosing, and hypoxia prevention while being designed to fit in any operating room setting. The Flow-e is a larger workstation for personalized anesthesia delivery, offering a bigger worktop, more space for storing, and multiple mounting options for offline equipment.

In February 2020, Medovate launched its US Food and Drug Administration-approved product Safira. Safira stands for Safer Injection for Regional Anesthetics. The device contains a safety feature that helps to prevent anesthesia from being injected at unsafe pressures, aiming to reduce the risk of significant or peripheral nerve damage. Thus, with the number of innovative products, the market is expected to show lucrative growth over the forecast period in the US region.

Anesthesia Monitoring Devices Market Competitor Analysis

The market studied is moderately competitive and is comprised mostly of global players. However, in developing countries, there is high competition among the local players. As the medical device market is growing rapidly and witnessing new entrants, it is believed that in the near future, more companies will enter the market studied and hold a substantial share of this market. In August 2020, Getinge received the US Food and Drug Administration approval for two products Flow-e and Flow-c Anesthesia Systems. These products have the capability to offer personalized anesthesia delivery for even the most challenging patients, from neonates and pediatrics to the morbidly obese.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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