

Anesthesia Monitoring Devices Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product (Basic Anesthesia Monitors, Integrated Anesthesia Workstations, and Advanced Anaesthesia Monitors), Advanced Anaesthesia Monitors (Depth of Anaesthesia Monitors, Anaesthesia Gas Monitors, and Standalone Capnograph Monitors), Technology (Bispectral Index (BIS), Auditory Evoked Potential (AEP), Patient State Index (PSI), Cortical Activity State Index (CSI), and Others), End User (Hospitals, Specialty Clinics, and Ambulatory Surgical Centers), and Geography

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Abstracts

The anesthesia monitoring devices market is expected to grow from US\$ 2.55 billion in 2023 to US\$ 5.78 billion by 2031; the market is anticipated to record a CAGR of 10.75% from 2023 to 2031.

During surgeries, anesthesia monitoring devices monitor the patient's reaction to the anesthesia. Oxygenation, circulation, breathing, and temperature measurements can be used to track anesthesia. The need for these devices varies from case to case and is dependent on the kind of operation being done. Anesthesia administration and monitoring during surgical procedures is a sophisticated skill that requires much training and experience. Anesthesia monitoring devices assist anesthesiologists in monitoring

anesthesia dosage, and good patient monitoring lowers the risks associated with both anesthesia and surgery.

Increasing Number Of Surgeries Is Driving Anesthesia Monitoring Devices Market

The rise in the number of surgeries significantly influences the anesthesia monitoring devices market, driving demand for advanced monitoring technologies and solutions. The Lancet Commission on Global Surgery (LCoGS) highlighted that between 28 and 32 percent of the world's disease burden requires surgical care, anesthetic management, or both. The report 'Global Surgery 2030 Evidence and Solutions for Achieving Health, Welfare, and Economic Development' indicates that 5 billion people worldwide lack access to safe, affordable surgical and anesthetic care when needed. An estimated 16.9 million deaths are attributed to surgical diseases annually. Furthermore, the NCBI reports that 310 million surgical procedures are carried out yearly, around 20 million in Europe and 40–50 million in the USA. Anesthesia monitoring devices ensure patient safety, optimize anesthesia delivery and monitor vital signs throughout surgical procedures. The growing emphasis on patient outcomes, anesthesia management efficiency, and adopting sophisticated monitoring equipment in operating rooms are key factors contributing to the market expansion.

On the other hand, the high cost associated with anesthesia monitoring devices poses a significant challenge that can limit market growth and adoption rates within the healthcare industry. The initial investment required for acquiring advanced monitoring devices and additional training, maintenance, and upgrades expenses can present financial barriers for healthcare facilities, particularly those operating under constrained budgets or resource limitations. The substantial cost of anesthesia monitoring equipment can strain capital expenditures, impact return on investment considerations, and potentially delay or deter healthcare providers from investing in state-of-the-art monitoring technologies. Moreover, ongoing operational costs, such as sensor replacements, software updates, and calibration services, contribute to the total cost of ownership, influencing purchasing decisions and overall cost-effectiveness assessments for healthcare institutions. The high cost of anesthesia monitoring devices may also challenge market penetration in regions with limited healthcare infrastructure, underserved populations, or economic disparities, where affordability and accessibility of advanced medical technologies remain critical considerations. Thus, the high cost associated with these scanning devices hinders the anesthesia monitoring devices market growth.

The anesthesia monitoring devices market analysis has been carried out by considering

the following segments: based on type, slice type, and end user. By product, the market is classified into basic anesthesia monitors, integrated anesthesia workstations, and advanced anesthesia monitors. Based on advanced anesthesia monitors, the market is segmented into Depth of anesthesia, anesthesia gas, and standalone capnographs monitors. Based on technology, the market is classified into bispectral index (BIS), auditory evoked potential (AEP), patient state index (PSI), cortical activity state index (CSI), and others. The market is classified into hospitals, specialty clinics, and ambulatory surgical centers based on end users. The geographic scope of the anesthesia monitoring devices market report includes North America (US, Canada, and Mexico), Europe (UK, Germany, France, Italy, Spain, and Rest of Europe), Asia Pacific (China, Japan, India, Australia, South Korea, and Rest of Asia Pacific), the Middle East & Africa (UAE, Saudi Arabia, South Africa, and Rest of Middle East & Africa), and South & Central America (Brazil, Argentina, and Rest of South & Central America).

Based on geography, the anesthesia monitoring devices market is classified into North America, Europe, Asia Pacific, Middle East & Africa, and South & Central America.

North America held the largest share of the anesthesia monitoring devices market in 2023. In North America, the US holds a significant share of the cervical cancer treatment market. In 2022, North America held the largest anesthesia monitoring devices market share. The market in North America is segmented into the US, Canada, and Mexico. Factors such as obesity, cardiovascular issues, and different kinds of cancer will continue to increase in North America, which will drive up the number of procedures performed in the region. The market for anesthetic monitoring devices has grown as a result of an increase in procedures performed to treat chronic illnesses. According to data published by Cedars-Sinai in January 2022, the most common heart surgery is coronary artery bypass graft surgery (CABG), often known as bypass surgery, with over 300,000 successful procedure cases performed annually in the US.

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