

Artificial Intelligence (AI)-Enhanced Post-Operative Monitoring Patch Market to Reach US \$4.33 Billion by 2029

*The Business Research Company's
Artificial Intelligence (AI)-Enhanced Post-Operative Monitoring Patch Global Size, Trends, And Forecast Report 2025-2034*

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What Is The Estimated Industry Size Of Artificial Intelligence (AI)-Enhanced Post-Operative Monitoring Patch Market?

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The market for post-operative monitoring patches bolstered by artificial intelligence (AI) has seen substantial growth in the past few years. The market value, which is projected to be \$1.88 billion in 2024, is expected to rise to \$2.22 billion in 2025 with a compound annual growth rate (CAGR) of 18.5%. Factors like escalated efforts to contain healthcare costs, increased need for remote patient monitoring, growing regulatory backing for digital health solutions, heightened patient knowledge and acceptance of digital health tools, and the boosting investment in healthcare technological startups, have contributed to the growth during the historic period.

Expectations indicate that [the market size for the post-operative monitoring patch](#), enhanced with artificial intelligence (AI), is set to experience substantial growth in the coming years. It's predicted to expand to a value of \$4.33 billion in 2029 with a compound annual growth rate (CAGR) of 18.1%. This projected ascending trend in the forecast period is due to factors such as the increasing requirement for continuous patient monitoring, the rising number of surgical procedures, a growing preference for wearable medical devices, an enhanced focus on

individualized healthcare, and a heightened attention on preventing complications after surgery. Key trends anticipated during this forecast period encompass the progression in wearable sensor technology, advancement in wireless communication technologies, the creation of sensor patches without the need for batteries and multiple sensor capabilities, the incorporation of ultrasound technology in monitoring patches, and the application of machine learning for adaptive monitoring.

Download a free sample of the artificial intelligence (ai)-enhanced post-operative monitoring patch market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=28919&type=smp>

What Are The Major Factors Driving The Artificial Intelligence (AI)-Enhanced Post-Operative Monitoring Patch Global Market Growth?

The artificial intelligence (AI)-enhanced post-operative monitoring patch market is predicted to be driven by the increasing need for remote patient monitoring (RPM). RPM revolves around using digital technology for ongoing assessment and management of patient's health data, which is collected and shared remotely. The growing necessity for RPM can be largely attributed to the rising number of chronic ailment cases, which demand constant real-time health monitoring to optimize results and minimize hospital visitations. AI-enhanced postoperative monitoring patches enhance RPM by persistently assessing patients' essential signs to identify early indications of complications. This facilitates early interventions and decreases hospital readmissions. As per the Department of Health and Human Services, nearly 1 million enrollees used RPM in 2024, marking a 27-percent surge from 2023. Thus, the growing preference for RPM is fuelling [the expansion of the AI-enhanced post-operative monitoring patch market](#).

Who Are The Leading Companies In The Artificial Intelligence (AI)-Enhanced Post-Operative Monitoring Patch Market?

Major players in the Artificial Intelligence (AI)-Enhanced Post-Operative Monitoring Patch Global Market Report 2025 include:

- Medtronic PLC
- Koninklijke Philips N.V.
- ZOLL Medical Corporation
- Masimo Corporation
- iRhythm Technologies Inc.
- Linxens GmbH
- Mintti Health Pvt. Ltd.
- VitalConnect Inc.
- Biotricity Inc.
- Vivalink Inc.

What Are The Prominent Trends In The Artificial Intelligence (AI)-Enhanced Post-Operative Monitoring Patch Market?

Leading businesses in the post-operative monitoring patch market enhanced by artificial

intelligence (AI) are concentrating on the creation of innovative solutions. These solutions, like wearable devices, allow individuals to actively manage their wellbeing. Wearable devices are technological instruments used on the body, gathering and monitoring data related to health, fitness or daily life activities. For instance, BioIntelliSense, an American biotech firm, along with UC Davis Health, a healthcare center in the US, initiated a constant monitoring system for bone marrow transplant patients in November 2023. The program merges the FDA-sanctioned BioButton wearable with AI-intensified analysis and a clinical intelligence interface to pinpoint early variations in crucial signs for prompt medical intervention. This superior post-operative monitoring patch can log as many as 1,440 vital sign observations per day for each patient, assisting in the early detection of potential post-surgical complications. Positioned on the upper left part of the chest, this device persistently keeps track of principal physiological parameters including heart rate, respiration rate, and skin temperature. This system offers intelligent alerts and precise visual proofs through the use of AI frameworks, thereby facilitating proactive and well-informed post-surgical patient care.

What Are The Primary Segments Covered In The Global Artificial Intelligence (AI)-Enhanced Post-Operative Monitoring Patch Market Report?

The artificial intelligence (ai)-enhanced post-operative monitoring patchmarket covered in this report is segmented –

- 1) By Product Type: Wearable Patches, Disposable Patches, Reusable Patches
- 2) By Technology: Wireless, Wired
- 3) By Distribution Channel: Online, Offline
- 4) By Application: Cardiac Monitoring, Respiratory Monitoring, Temperature Monitoring, Mobility Monitoring, Others Applications
- 5) By End-User: Hospitals, Ambulatory Surgical Centers, Home Care Settings, Others End-Users

Subsegments:

- 1) By Wearable Patches: Vital Sign Monitoring Patch, Cardiac Monitoring Patch, Temperature Monitoring Patch
- 2) By Disposable Patches: Single Use Postoperative Patch, Adhesive Biosensor Patch, Sterile Surgical Recovery Patch
- 3) By Reusable Patches: Rechargeable Smart Patch, Washable Sensor Patch, Multi Patient Monitoring Patch

View the full artificial intelligence (ai)-enhanced post-operative monitoring patch market report: <https://www.thebusinessresearchcompany.com/report/artificial-intelligence-ai-enhanced-post-operative-monitoring-patch-global-market-report>

Which Region Is Forecasted To Grow The Fastest In The Artificial Intelligence (AI)-Enhanced Post-Operative Monitoring Patch Industry?

In 2024, North America held the leading position in the global market for AI-enhanced post-operative monitoring patch. The region projected to see the swiftest growth in the following year

is Asia-Pacific. The report looks at several regions globally including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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