

Multi-Parameter Patient Monitoring Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Disease Type (Portable, Fixed), By Acuity Level (High Acuity Level, Medium Acuity Level, Low Acuity Level), By Target Area (Cardiology, Neurology, Respiratory, Fetal and Neonatal, Temperature Monitoring, Other), By End-User (Hospitals, Home Healthcare), By Region & Competition, 2020-2030F

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Abstracts

Market Overview

Global Multi-Parameter Patient Monitoring Market was valued at USD 10.89 billion in 2024 and is anticipated to project impressive growth in the forecast period with a CAGR of 5.87% through 2030F. The Global Multi-Parameter Patient Monitoring Market is a dynamic and rapidly evolving sector within the broader healthcare industry, driven by technological advancements, rising healthcare needs, and an increasing focus on patient-centric care. This market includes a broad spectrum of sophisticated medical devices and integrated systems that enable the real-time monitoring of vital signs such as heart rate, respiratory rate, blood pressure, oxygen saturation, temperature, and other critical physiological parameters. These monitoring solutions are widely utilized in hospitals, ambulatory care centers, home care settings, and intensive care units, supporting healthcare professionals in making timely and accurate clinical decisions. For instane, in 2024, BROADSIMS introduced a 5G smart patient monitoring solution aimed at building a connected healthcare ecosystem. This innovation enhances real-time data transmission, streamlines care delivery, and significantly improves healthcare



efficiency across various medical settings.

Key Market Drivers

The Role of Technology Advancements

Technology advancements are at the forefront of driving the Global Multi-Parameter Patient Monitoring Market. These innovations have redefined the landscape of healthcare by introducing cutting-edge solutions that enhance patient care and streamline medical processes. For instance, in January 2023, Biobeat—a global leader in wearable remote patient monitoring devices, announced that it had received 510(k) clearance from the U.S. Food and Drug Administration (FDA). This approval enables the company to monitor a range of vital health indicators, including stroke volume, cardiac output, cuffless blood pressure, oxygen saturation, pulse rate, respiratory rate, and body temperature. Miniaturized, high-precision sensors have become the backbone of patient monitoring. These sensors can capture a wide range of vital signs and health parameters with remarkable accuracy. The integration of wireless technology enables real-time data transmission from monitoring devices to healthcare providers' systems. This seamless data flow ensures that medical professionals can access critical patient information promptly, even from remote locations. Sophisticated data analytics tools process the wealth of information collected by multi-parameter patient monitoring systems. These tools help in identifying trends, anomalies, and potential issues, enabling healthcare providers to make informed decisions quickly. Wearable monitoring devices have gained popularity among patients and healthcare professionals alike. These compact and user-friendly gadgets allow patients to monitor their health continuously, providing valuable insights into their well-being. The advent of remote monitoring has transformed patient care. Physicians can now track their patients' vital signs and health status outside traditional hospital settings, reducing hospital readmissions and improving overall patient outcomes.

Key Market Challenges

Data Security and Privacy Concerns

As multi-parameter patient monitoring systems collect and transmit sensitive health data, concerns about data security and patient privacy are paramount. Several challenges related to data security and privacy can pose obstacles to market expansion:

The healthcare industry is a prime target for cyberattacks and data breaches. A breach



of patient health data can have severe legal, financial, and reputational consequences for healthcare providers and device manufacturers. Healthcare data is subject to strict regulatory frameworks, such as the Health Insurance Portability and Accountability Act (HIPAA) in the United States. Compliance with these regulations requires significant investment in data security measures and compliance monitoring. Patients must have confidence that their health data is secure and that their privacy is protected. Any perception of insecurity can hinder the adoption of multi-parameter patient monitoring systems. Addressing these security and privacy concerns is essential for the market to gain widespread acceptance and trust among healthcare providers and patients.

Key Market Trends

Remote Patient Monitoring (RPM)

Remote Patient Monitoring is a transformative trend in the healthcare industry that has gained significant traction in the Global Multi-Parameter Patient Monitoring Market. This trend involves the use of advanced monitoring devices to track patients' vital signs and health parameters from the comfort of their homes or other non-hospital settings. Key aspects of this trend include:

RPM allows healthcare providers to monitor patients continuously without the need for frequent in-person visits. This is especially beneficial for patients in remote areas or those with limited mobility. RPM is particularly valuable for individuals with chronic diseases, such as diabetes, hypertension, and heart conditions. These patients can receive timely interventions and adjustments to their treatment plans based on real-time data, reducing the risk of complications. As the global population ages, RPM provides a means to monitor the health of elderly individuals more effectively, allowing them to maintain independence and age in place. The data collected through RPM is often analyzed using advanced analytics tools, enabling healthcare providers to detect trends and potential issues early, thus facilitating proactive care.

Key Market Players

Abbott Laboratories

Baxter International Inc.

Becton, Dickinson and Company



Boston Scientific Corporation General Electric Company (GE Healthcare) Medtronic PLC Koninklijke Philips NV **SCHILLER** Nihon Kohden Report Scope: In this report, the Global Multi-Parameter Patient Monitoring Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below: Multi-Parameter Patient Monitoring Market, By Device Type: Portable Fixed Multi-Parameter Patient Monitoring Market, By Acuity Level: High Acuity Level Medium Acuity Level Low Acuity Level Multi-Parameter Patient Monitoring Market, By Target Area: Cardiology Neurology



Respiratory		
Fetal and Neonatal		
Temperature Monitoring		
Other		
Multi-Parameter Patient Monitoring Market, By End-User:		
Hospitals		
Home Healthcare		
Multi-Parameter Patient Monitoring Market, By Region:		
North America		
United States		
Canada		
Mexico		
Europe		
France		
United Kingdom		
Italy		
Germany		
Spain		
Asia-Pacific		

China



India	
Japan	
Australia	
South Korea	
South America	
Brazil	
Argentina	
Colombia	
Middle East & Africa	
South Africa	
Saudi Arabia	
UAE	

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Multi-Parameter Patient Monitoring Market.

Available Customizations:

Global Multi-Parameter Patient Monitoring market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information



Detailed analysis and profiling of additional market players (up to five).



Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries

4. OVERVIEW OF MARKET DRIVERS, CHALLENGES, TRENDS

5. VOICE OF CUSTOMER

6. GLOBAL MULTI-PARAMETER PATIENT MONITORING MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Device Type (Portable, Fixed)
 - 6.2.2. By Acuity Level (High Acuity Level, Medium Acuity Level, Low Acuity Level)
 - 6.2.3. By Target Area (Cardiology, Neurology, Respiratory, Fetal and Neonatal,



Temperature Monitoring, Other)

- 6.2.4. By End-User (Hospitals, Home Healthcare)
- 6.2.5. By Region
- 6.2.6. By Company (2024)
- 6.3. Market Map

7. NORTH AMERICA MULTI-PARAMETER PATIENT MONITORING MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Disease Type
 - 7.2.2. By Acuity Level
 - 7.2.3. By Target Area
 - 7.2.4. By End-User
 - 7.2.5. By Country
- 7.3. North America: Country Analysis
 - 7.3.1. United States Multi-Parameter Patient Monitoring Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Disease Type
 - 7.3.1.2.2. By Acuity Level
 - 7.3.1.2.3. By Target Area
 - 7.3.1.2.4. By End-User
 - 7.3.2. Canada Multi-Parameter Patient Monitoring Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Disease Type
 - 7.3.2.2.2. By Acuity Level
 - 7.3.2.2.3. By Target Area
 - 7.3.2.2.4. By End-User
 - 7.3.3. Mexico Multi-Parameter Patient Monitoring Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Disease Type



- 7.3.3.2.2. By Acuity Level
- 7.3.3.2.3. By Target Area
- 7.3.3.2.4. By End-User

8. EUROPE MULTI-PARAMETER PATIENT MONITORING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Disease Type
 - 8.2.2. By Acuity Level
 - 8.2.3. By Target Area
 - 8.2.4. By End-User
 - 8.2.5. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany Multi-Parameter Patient Monitoring Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Disease Type
 - 8.3.1.2.2. By Acuity Level
 - 8.3.1.2.3. By Target Area
 - 8.3.1.2.4. By End-User
 - 8.3.2. United Kingdom Multi-Parameter Patient Monitoring Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Disease Type
 - 8.3.2.2.2. By Acuity Level
 - 8.3.2.2.3. By Target Area
 - 8.3.2.2.4. By End-User
 - 8.3.3. Italy Multi-Parameter Patient Monitoring Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecasty
 - 8.3.3.2.1. By Disease Type
 - 8.3.3.2.2. By Acuity Level
 - 8.3.3.2.3. By Target Area
 - 8.3.3.2.4. By End-User



8.3.4. France Multi-Parameter Patient Monitoring Market Outlook

- 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
- 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Disease Type
 - 8.3.4.2.2. By Acuity Level
 - 8.3.4.2.3. By Target Area
- 8.3.4.2.4. By End-User
- 8.3.5. Spain Multi-Parameter Patient Monitoring Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Disease Type
 - 8.3.5.2.2. By Acuity Level
 - 8.3.5.2.3. By Target Area
 - 8.3.5.2.4. By End-User

9. ASIA-PACIFIC MULTI-PARAMETER PATIENT MONITORING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Disease Type
 - 9.2.2. By Acuity Level
 - 9.2.3. By Target Area
 - 9.2.4. By End-User
 - 9.2.5. By Country
- 9.3. Asia-Pacific: Country Analysis
 - 9.3.1. China Multi-Parameter Patient Monitoring Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Disease Type
 - 9.3.1.2.2. By Acuity Level
 - 9.3.1.2.3. By Target Area
 - 9.3.1.2.4. By End-User
 - 9.3.2. India Multi-Parameter Patient Monitoring Market Outlook
 - 9.3.2.1. Market Size & Forecast



- 9.3.2.1.1. By Value
- 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Disease Type
 - 9.3.2.2.2. By Acuity Level
 - 9.3.2.2.3. By Target Area
- 9.3.2.2.4. By End-User
- 9.3.3. Japan Multi-Parameter Patient Monitoring Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Disease Type
 - 9.3.3.2.2. By Acuity Level
 - 9.3.3.2.3. By Target Area
 - 9.3.3.2.4. By End-User
- 9.3.4. South Korea Multi-Parameter Patient Monitoring Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Disease Type
 - 9.3.4.2.2. By Acuity Level
 - 9.3.4.2.3. By Target Area
 - 9.3.4.2.4. By End-User
- 9.3.5. Australia Multi-Parameter Patient Monitoring Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Disease Type
 - 9.3.5.2.2. By Acuity Level
 - 9.3.5.2.3. By Target Area
 - 9.3.5.2.4. By End-User

10. SOUTH AMERICA MULTI-PARAMETER PATIENT MONITORING MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Disease Type
 - 10.2.2. By Acuity Level



10.2.3. By Target Area

10.2.4. By End-User

10.2.5. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Multi-Parameter Patient Monitoring Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Disease Type

10.3.1.2.2. By Acuity Level

10.3.1.2.3. By Target Area

10.3.1.2.4. By End-User

10.3.2. Argentina Multi-Parameter Patient Monitoring Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Disease Type

10.3.2.2.2. By Acuity Level

10.3.2.2.3. By Target Area

10.3.2.2.4. By End-User

10.3.3. Colombia Multi-Parameter Patient Monitoring Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Disease Type

10.3.3.2.2. By Acuity Level

10.3.3.2.3. By Target Area

10.3.3.2.4. By End-User

11. MIDDLE EAST AND AFRICA MULTI-PARAMETER PATIENT MONITORING MARKET OUTLOOK

11.1. Market Size & Forecast

11.1.1. By Value

11.2. Market Share & Forecast

11.2.1. By Disease Type

11.2.2. By Acuity Level

11.2.3. By Target Area

11.2.4. By End-User



- 11.2.5. By Country
- 11.3. MEA: Country Analysis
 - 11.3.1. South Africa Multi-Parameter Patient Monitoring Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Disease Type
 - 11.3.1.2.2. By Acuity Level
 - 11.3.1.2.3. By Target Area
 - 11.3.1.2.4. By End-User
 - 11.3.2. Saudi Arabia Multi-Parameter Patient Monitoring Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Disease Type
 - 11.3.2.2.2. By Acuity Level
 - 11.3.2.2.3. By Target Area
 - 11.3.2.2.4. By End-User
 - 11.3.3. UAE Multi-Parameter Patient Monitoring Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Disease Type
 - 11.3.3.2.2. By Acuity Level
 - 11.3.3.2.3. By Target Area
 - 11.3.3.2.4. By End-User

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

- 13.1. Recent Developments
- 13.2. Product Launches
- 13.3. Merger & Acquisition

14. GLOBAL MULTI-PARAMETER PATIENT MONITORING MARKET: SWOT



ANALYSIS

15. COMPETITIVE LANDSCAPE

- 15.1. Abbott Laboratories
 - 15.1.1. Business Overview
 - 15.1.2. Acuity Level Offerings
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
- 15.2. Baxter International Inc.
- 15.3. Becton, Dickinson and Company
- 15.4. Boston Scientific Corporation
- 15.5. General Electric Company (GE Healthcare)
- 15.6. Medtronic PLC
- 15.7. Koninklijke Philips NV
- 15.8. SCHILLER
- 15.9. Nihon Kohden

16. STRATEGIC RECOMMENDATIONS

17.ABOUT US & DISCLAIMER



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