

# Artificial Intelligence in Remote Patient Monitoring Market Forecasts to 2032 – Global Analysis By Component (AI-Enabled Devices, Software, and Services), Technology, Application, End User and By Geography

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## Abstracts

According to Statistics MRC, the Global Artificial Intelligence in Remote Patient Monitoring Market is accounted for \$2.58 billion in 2025 and is expected to reach \$16.13 billion by 2032 growing at a CAGR of 29.9% during the forecast period. Artificial Intelligence in Remote Patient Monitoring involves using AI tools within remote healthcare platforms to oversee patient health beyond hospitals. It processes real-time medical data, identifies potential risks, and suggests tailored treatments. Through machine learning, predictive modelling, and automation, AI boosts patient outcomes, lowers hospital admissions, enables prompt care responses, and enhances chronic condition management. This approach ensures ongoing, data-supported, and efficient healthcare delivery while empowering both patients and healthcare professionals.

According to Gov.UK, private firms invested around USD 250 million investments in AI from July 2024 to January 2025.

Market Dynamics:

Driver:

Growing prevalence of chronic diseases

The increasing burden of chronic illnesses such as diabetes, cardiovascular conditions, and respiratory disorders is fuelling demand for continuous health monitoring solutions.

AI-powered remote patient monitoring (RPM) tools are being adopted to manage long-term conditions more proactively and reduce hospital readmissions. As global populations age and diagnostic capabilities improve, healthcare providers are shifting toward predictive analytics and personalized interventions. Wearable devices and smart sensors are enabling real-time tracking of vital signs, empowering clinicians to intervene early. This trend is accelerating RPM adoption across both developed and emerging healthcare ecosystems.

#### Restraint:

##### Data security and privacy concerns

Regulatory frameworks such as HIPAA and GDPR require stringent compliance, which can slow deployment and increase operational costs. The use of cloud-based platforms and IoT devices introduces vulnerabilities that demand robust encryption and access controls. Smaller healthcare providers often lack the technical infrastructure to safeguard sensitive health information effectively. AI algorithms trained on patient data must adhere to ethical standards and transparency to maintain trust. These privacy-related constraints are limiting scalability and delaying broader market penetration.

#### Opportunity:

##### Personalized care plans and recommendations

AI-driven RPM systems are unlocking new possibilities for individualized care pathways tailored to patient-specific needs. Machine learning models can analyze behavioral patterns, medication adherence, and biometric data to recommend timely interventions. This personalization is improving treatment outcomes and enhancing patient engagement across chronic and post-acute care settings. Emerging platforms are integrating voice assistants and natural language processing to deliver context-aware health coaching. Predictive analytics is enabling risk stratification and early detection of complications, reducing emergency visits. As value-based care models gain traction, personalized RPM is becoming central to healthcare transformation.

#### Threat:

##### Resistance to change and lack of digital literacy

Limited digital literacy, especially among elderly populations, hampers effective

utilization of smart health devices. Healthcare professionals may resist workflow changes due to unfamiliarity with AI tools and perceived complexity. Training programs and user-friendly interfaces are essential to bridge this adoption gap. Cultural and institutional inertia can delay integration of remote monitoring into traditional care models. Without targeted education and support, RPM platforms risk underutilization and reduced impact.

### Covid-19 Impact

The COVID-19 pandemic significantly accelerated the adoption of remote patient monitoring technologies worldwide. Lockdowns and overwhelmed hospitals prompted a shift toward virtual care and AI-assisted diagnostics. RPM tools played a critical role in managing quarantined patients and tracking symptoms remotely. Governments and regulatory bodies fast-tracked approvals for digital health solutions, boosting innovation and deployment. Post-pandemic strategies now emphasize decentralized care, telehealth integration, and AI-driven triage systems. The crisis catalysed a permanent shift toward remote, data-centric healthcare delivery.

The AI-enabled devices segment is expected to be the largest during the forecast period

The AI-enabled devices segment is expected to account for the largest market share during the forecast period, due to its advanced capabilities in real-time health tracking and decision support. These devices, including smart wearables and connected monitors, are increasingly embedded with machine learning algorithms for predictive insights. Hospitals and homecare providers are leveraging AI to detect anomalies and automate alerts for timely intervention. Integration with cloud platforms and EHRs is enhancing interoperability and care coordination. Continuous innovation in sensor technology and edge computing is expanding device functionality and reliability. As AI becomes more embedded in hardware, this segment is set to lead in both adoption and revenue generation.

The homecare settings segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the homecare settings segment is predicted to witness the highest growth rate, driven by the shift toward patient-centric and cost-effective care. AI-powered tools are enabling remote monitoring of chronic conditions, reducing the need for frequent hospital visits. The rise of smart home health kits and voice-enabled

assistants is making RPM more accessible and intuitive. Reimbursement reforms and aging demographics are further supporting home-based care models. Cloud-based dashboards and mobile apps are empowering caregivers with actionable insights and remote supervision. As healthcare decentralizes, homecare is emerging as a key frontier for AI-driven RPM expansion.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share supported by rapid healthcare digitization and infrastructure investments. Countries like China, India, and Japan are scaling up telehealth platforms and smart hospital initiatives. Government programs are promoting AI adoption through subsidies, pilot projects, and local manufacturing incentives. The region is witnessing strong uptake of wearable health devices and mobile-based RPM solutions. Collaborations between global tech firms and regional providers are accelerating innovation and market access.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by its leadership in AI research and healthcare innovation. The U.S. and Canada are investing heavily in smart health infrastructure, including AI-powered analytics and remote diagnostics. Regulatory bodies are streamlining digital health approvals, fostering rapid commercialization of RPM technologies. Hospitals are integrating AI with IoT and cloud platforms to optimize patient monitoring and resource allocation. Favorable reimbursement policies and growing consumer demand for virtual care are boosting adoption. As precision medicine and predictive care gain momentum, North America continues to set the benchmark for RPM evolution.

Key players in the market

Some of the key players profiled in the Artificial Intelligence in Remote Patient Monitoring Market include Koninklijke Philips, Medtronic, OMRON Healthcare, GE HealthCare, Biobeat, Boston Scientific, Dexcom, Nihon Kohden, F. Hoffmann-La Roche, ResMed, AliveCor, Biotronik, Honeywell, Masimo, and Abbott.

Key Developments:

In September 2025, Royal Philips and Masimo announced that the two companies have

renewed their multi-year strategic collaboration, marking a fresh chapter in their long-standing partnership. With a shared commitment to innovation and expanding access to high-quality, connected care, the two companies are taking a bold new approach in accelerating the development and delivery of next-generation patient monitoring solutions.

In April 2025, Medtronic plc announced it has submitted 510(k) applications to the U.S. Food and Drug Administration (FDA) seeking clearance for an interoperable pump. FDA clearance of this pump would pave the way for system integration with a continuous glucose monitoring (CGM) sensor based on Abbott's most advanced CGM platform.

#### Components Covered:

- AI-Enabled Devices

- Software

- Services

#### Technologies Covered:

- Machine Learning

- NLP & Speech Recognition

- Other Technologies

#### Applications Covered:

- Cardiovascular Monitoring

- Neurological Disorders

- Diabetes Management

- Post-Acute Recovery

Oncology

Respiratory Disorders

Other Applications

End Users Covered:

Hospitals & Health Systems

Homecare Settings

Ambulatory Surgical Centers (ASCs)

Patients

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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