

# Advanced Remote Patient Monitoring Systems

<https://marketpublishers.com/r/A9812EDB4E0EN.html>

Date: March 2013

Pages: 380

Price: US\$ 4,995.00 (Single User License)

ID: A9812EDB4E0EN

## Abstracts

Patient monitoring systems with advanced features, especially wireless or remote capability, are among the fastest-growing medical devices. The aging population and the associated increases in diseases such as congestive heart disease and diabetes as well as the cost of treating those conditions, is driving sales of these devices. Use of new patient monitoring technologies can result in a need for fewer personnel, increased coverage by existing personnel, and a reduction in errors and are expected to lead to better patient care and the recognition of serious health problems before they become an issue.

### Full Coverage of This Fast-Growing Medical Device Area

This Kalorama Information report, *Advanced Remote Patient Monitoring Systems*, is a comprehensive study on the patient monitoring industry, including the advanced system with remote and wireless capability to includes patient monitoring equipment and devices which have advanced features. The report specifically focuses on technologically advanced (including wireless and remote) patient monitors; monitors with patient data processing applications; and monitors which are capable of data transfer to an EMR system-including equipment and peripherals which coordinate the flow of data to hospital electronic medical record systems. For the most part, devices covered in this report can: 1) provide monitoring information beyond a patient room; and 2) provide data for an EMR system or are expected to add such features within the forecast period.

### Segmented Into Relevant Market Sectors

This report provides complete market sizes and revenue breakouts for the important segments of the advanced monitoring market. For the purpose of this report, three general areas of advanced patient monitoring are covered. These include:

Vital Sign Monitoring (Blood Pressure, Pulse Oximeters, Other)

Diagnostic Monitoring (EKG, Other)

Specialized or Disease-Specific Monitoring (Anesthesia Monitors, Cardiac Rhythm Monitoring, Diabetes -Glucose Monitoring, Respiratory Monitors)

In this report, in order to reflect coverage of the broad range of patient monitoring products, The advanced patient monitoring market is segmented into two general end-user markets: hospital/acute care facilities and the telehome or Telemedicine market (which includes both home/mobile care devices). Hospitals and acute care include inpatient facilities (ie. Hospitals, trauma centers, etc.), surgery centers, burn units, urgent care clinics and other similar establishments. The Telemedicine or telehome (home/mobile care) segment includes home healthcare, assisted living homes, first responders, and other institutions. The report breaks out the market for patient monitoring systems by end user:

Hospital Patient Monitoring

Telemedicine Patient Monitoring

Businesses can use this report to plan based on the category they want to focus their research effort on.

Global Coverage of Markets and Key Trends

This truly worldwide report contains segmentation of the global market for the industry, including market estimates for US, Europe, Japan, China and Brazil. The U.S. market is also covered in detail with an entire section of market analysis just for patient monitoring in the world's largest healthcare system.

A number of trends will be important for market-watchers to understand to fully assess the opportunity available. Issues and trends driving the market for patient monitoring, particularly advanced patient monitoring include:

Increasing life expectancy

Implantable devices

HIPAA and Electronic Data Security

Medicine- at-Work concept

Emphasis on reducing hospital days

Intensive care, cardiology nursing shortages

Cost effectiveness

Mental Health Assessments and Telemedicine

New wireless technologies

Algorithms to “sort” data or trigger alarms

Off-site access to data

Full-service outsourcing

Converged wireless networks

Data management and the electronic medical record

HIPAA

FCC rules for medical wireless communication

Advanced Patient monitoring systems are defined by the tasks they can perform. Software enables these tasks, and represents important markets on their own. This report contains coverage of these aspects of the market, with market size and forecast assessments.

Patient Data Processing Applications and Equipment: uses algorithms to

evaluate monitoring measurements for a patient's specific condition(s). Usually, these can be customized by the physician, with reports sent to the physician. In the market for advanced patient monitoring systems, the applications and equipment are either integrated into the patient monitoring system or are add-ons to the measuring systems.

EMR Data Transfer Equipment and Applications: described in the report as either components of, or add-ons to, patient monitoring systems. This report does not include EMR software. In general, the applications in this segment transfer data to third-party EMRs. The base year is 2012, with forecasts provided for each year through 2017. The market was evaluated via a combination of disease prevalence trends, population trends, device innovations, federal and industry standards and regulations. Both primary and secondary sources were consulted in developing market estimates.

### Extensive Company Coverage

There are a considerable number of companies offering some form of wireless and remote technologies, patient data processing applications and equipment, and EMR data transfer equipment. A select few are profiled in this report including:

Abbott Laboratories

Aerotel Medical Systems

Alere

AMD Global Telemedicine

American Telecare

AuthentiDate

B. Braun

Baxter

Bosch Medical

Boston Scientific

C.R. Bard

Cardiacom

Carematix

Compumedics

Covidien

Criticare Systems

Cybernet Medical

Dräger Medical

GE Healthcare

Getinge Group

Global Media Group

Hoana Medical

Honeywell HomMed

Infinium Medical

InTechnology

Intel Corporation

InTouch Health

Johnson & Johnson

LifeWatch

Masimo Corp

Medtronic, Inc.

Mindray

Nihon Kohden

Omron Healthcare

OSI Systems

Philips Healthcare

Proteus Digital Health

Roche

Second Opinion Telemedicine

Schiller AG

Smiths Medical

St. Jude Medical

Welch Allyn

## Contents

### **CHAPTER ONE: EXECUTIVE SUMMARY**

Introduction  
Scope and Methodology  
Product Details  
End-Users  
Hospitals  
Home Health  
Nursing Homes  
Other Markets  
Issues and Trends  
Size and Growth of the Market  
Competitors

### **CHAPTER TWO: INTRODUCTION**

Overview  
Aging of the Population  
Population Statistics  
Global Population Trends  
Global Population over 65  
U.S. Population Trends  
U.S. Population over 65  
Global Trends in Life Expectancy  
Barriers to Use of New Technologies in Patient Monitoring  
Emerging Trends  
Cloud-Based Mobile Healthcare  
Cloud Connectivity and Compatibility  
Healthcare Establishments  
Hospitals  
U.S. Hospital Segment  
Hospital Systems around the World  
Physicians  
Number of Physicians  
Nursing Homes  
International Trends in Nursing Facilities  
Home Health

Proven Cost Effectiveness

## **CHAPTER THREE: ADVANCED REMOTE PATIENT MONITORING**

### **PRODUCTS**

Overview

New Technologies

Wireless Technologies

Smartphones in Healthcare

Benefits of Healthcare Smartphones

Challenges in the Implementation of Smartphones in Healthcare Settings

Remote Monitoring

Telemedicine

Applications by Disease State

Global Cancer Incidence

Global Cardiovascular Disease Rates

Global Impact of Diabetes

Global Obesity Rates by Population

EMR (EHR) Data Transfer Applications and Equipment

Technology Achievements

Implantable Medical Devices

Technology for Drug Adherence, Targeted Delivery, and Monitoring

Mobile Medical Applications and Patient Monitoring

Nanobots

Product Segments with Advanced Technologies

Vital Signs Monitoring Devices

Blood Pressure Monitors

Pulse Oximeters

Temperature

Diagnostic Monitoring

ECG/EKG

Spirometry

Ultrasound

Specialized Monitoring

Anesthesia Monitoring

Cardiovascular Disease Monitoring

Cancer Treatment Monitors

Diabetes Monitors

Fetal Heart Monitors



Osteoarthritis  
Prothrombin Time Monitors  
Respiratory Monitors  
Sleep Disorder Monitors  
Product Offerings  
Examples of Company Offerings  
Abbott  
American Medical Development (AMD) Telemedicine Products  
American TeleCare  
Bosch Healthcare  
Boston Scientific  
Cardiacom  
Carematix  
Covidien  
Cybernet Medical Corporation  
Draeger Medical  
GE Healthcare  
GlobalMed  
Honeywell HomMed  
Intel  
InTouch Health  
InTechnology  
Johnson & Johnson  
LifeWatch Technologies  
Masimo Corporation  
MedApps  
Medtronic  
Mindray  
Nihon Kohden  
Omron Corporation  
OSI Systems  
Philips Medical Systems  
Roche  
Second Opinion Telehealth Solutions, Inc.  
St. Jude Medical  
Welch Allyn

## **CHAPTER FOUR: COMPETITOR TRENDS AND MARKET SHARE ANALYSIS**

Overview  
Acquisitions and Agreements  
Abbott Laboratories  
Alere  
Covidien  
GE Healthcare  
GlobalMed  
Medtronic  
Philips Healthcare  
Welch Allyn  
Competitor Market Analysis  
Philips Healthcare  
Medtronic  
Covidien  
Roche  
St. Jude Medical  
GE Healthcare  
Johnson & Johnson  
Omron  
Draeger  
Boston Scientific  
Abbott Laboratories  
Nihon Kohden  
Masimo Corporation  
Mindray  
OSI Systems  
Other Companies

## **CHAPTER FIVE: ISSUES AND TRENDS**

Introduction  
Issues and Trends Driving the Market  
Aging of the Population  
Increasing Life Expectancy and the Demand for Advanced Healthcare Delivery Options  
Global Healthcare Trends  
General Economic Trends by Country  
U.S. Health Industry Trends  
U.S. Healthcare Challenges  
Economic Trends in the U.S.

U.S. Health Expenditures by Type  
Health Information Technology and American Reinvestment and Recovery Act of 2009 (ARRA)  
Meaningful Use Criteria  
Stages of Meaningful Use  
Qualifying for Stage One Meaningful Use  
HIPAA  
Medicine-At-Work  
Healthcare Efficiency  
Electronic Medical Records  
Overview of EMRs  
EMR Adoption  
Are Electronic Healthcare Systems More Efficient?  
The EMR and Mobile Apps  
Hospital Communications  
Remote Monitoring  
Capacity Constraints  
Emphasis on Reducing Hospital Days  
Decreasing Healthcare Resources  
Nursing Shortage  
eICU  
eICU Case Study  
Opportunities in Telemedicine/Telemedicine  
Mental Health Assessment Through Telemedicine  
Post-Traumatic Stress Disorder (PTSD)  
Improving the U.S. Mental Care Environment  
Mental Disorder Statistics  
Suicide  
Growing Acceptance of Mobile Technologies  
North America  
Europe  
South America  
Asia-Pacific  
Internet Users and Growing Adoption of Technology  
Development of Patient Monitoring Technologies  
Audio and Video  
Algorithms to “Sort” Data or Trigger Alarms  
Alarm Fatigue  
Off-site Access to Data

Full-service Outsourcing  
Converged Wireless Networks  
Data Management and the Electronic Medical Record  
Turnkey Systems  
Disease Management Kits  
FCC Rules for Medical Wireless Communication  
System Compatibility

## **CHAPTER SIX: GLOBAL MARKET SIZE AND FORECAST**

Overview  
Total Global Market Size and Forecast  
Global Markets by Product Type  
Vital Sign Monitoring  
Diagnostic Monitoring  
Specialized or Disease-Specific Monitoring  
End-User Markets  
The Global Telemedicine Market  
Global Hospital and Acute Care Patient Monitoring Market  
Global Markets by Region  
Market Drivers and Inhibitors  
Growth Drivers  
Growth Inhibitors  
Emerging Trends

## **CHAPTER SEVEN: U.S. MARKET SIZE AND FORECAST**

Overview  
Total U.S. Market Size and Forecast  
Markets by Product Type  
Vital Sign Monitoring  
Diagnostic Monitoring  
Specialized or Disease-Specific Monitoring  
Markets by Major Disease  
Asthma  
Cancer  
COPD  
Diabetes  
Heart Conditions

Other  
End-User Markets  
Hospitals/Acute Care Centers  
Home Health/Telemedicine

## **CHAPTER EIGHT: CASE STUDIES**

Overview  
Examples of Implemented Technologies  
Honeywell's LifeStream View  
St. Alexius Medical Center (SAMC) Telemedicine Project  
Ottawa Hospital--Ottawa, Ontario  
Philips ICU Telemedicine Program  
Southeast Alabama Medical Center--Dothan, Alabama  
Meridian Health—New Jersey  
Mount Sinai Hospital and the University Health Network (UHN)—New York, New York  
Sentara Healthcare—Norfolk, Virginia  
Provena Health--Mokena, Illinois  
The Whole Child Pediatrics P.S.C.—Florence, Kentucky  
Remote Monitoring with Honeywell HomMed  
Rural Wireless Healthcare: 3G Mobile Medicine

## **CHAPTER NINE: CORPORATE PROFILES**

Introduction  
Patents  
Profiles  
Abbott Laboratories  
    Company Overview  
    Patents  
    Performance Review  
Aerotel Medical Systems  
    Company Overview  
    Patents  
Alere  
    Company Overview  
    Patents  
    Performance Review

**AMD Global Telemedicine**

Company Overview

Patents

**American TeleCare**

Company Overview

Patents

**AuthentiDate**

Company Overview

Relevant Patents

Performance Review

**B. Braun**

Company Overview

Patents

Performance Review

**Baxter**

Company Overview

Patents

Performance Review

**Bosch**

Company Overview

Patents

Performance Review

**Boston Scientific**

Company Overview

Patents

Performance Review

**C.R.Bard**

Company Overview

Patents

Performance Review

**Cardiocom**

Company Overview

Patents

**Carematix**

Company Overview

**Compumedics**

Company Overview

Patents

Performance Review

Covidein  
Company Overview  
Patents  
Performance Review

Criticare Systems  
Company Overview  
Patents  
Performance Review

Cybernet Medical  
Company Overview  
Patents

Dräger Medical  
Company Overview  
Patents  
Performance Review

GE Healthcare  
Company Overview  
Patents  
Performance Review

Getinge Group  
Company Overview  
Patents  
Performance Review

GlobalMed Group  
Company Overview  
Performance Review

Hoana Medical  
Company Overview

Honeywell HomMed  
Company Overview  
Performance Review

Infinium Medical  
Company Overview

InTechnology  
Company Overview  
Performance Review

Intel Corporation  
Company Overview  
Patents

Performance Review  
InTouch Health  
Company Overview  
Patents  
Johnson & Johnson  
Company Overview  
Patents  
Performance Review  
Company Overview  
Performance Review  
Masimo  
Company Overview  
Patents  
Performance Review  
Company Overview  
Patents  
Performance Review  
Mindray  
Company Overview  
Patents  
Performance Review  
Nihon Kohden  
Company Overview  
Patents  
Performance Review  
Omron Healthcare  
Company Overview  
Patents  
Performance Review  
OSI Systems  
Company Overview  
Patents  
Performance Review  
Company Overview  
Patents  
Performance Review  
Proteus Digital Health  
Company Overview  
Patents



Roche

Company Overview

Patents

Performance Review

Second Opinion Telehealth

Company Overview

Schiller

Company Overview

Smiths Medical

Company Overview

Patents

Performance Review

St. Jude Medical

Company Overview

Patents

Performance Review

Welch Allyn

Company Overview

Patents

## **APPENDIX A: REGULATORY AUTHORITIES AND ORGANIZATIONS ..375**

## **APPENDIX B: LIST OF COMPANIES**

## I would like to order

Product name: Advanced Remote Patient Monitoring Systems

Product link: <https://marketpublishers.com/r/A9812EDB4E0EN.html>

Price: US\$ 4,995.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A9812EDB4E0EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970