Remote Patient Monitoring in the United States: 2025 Landscape Report

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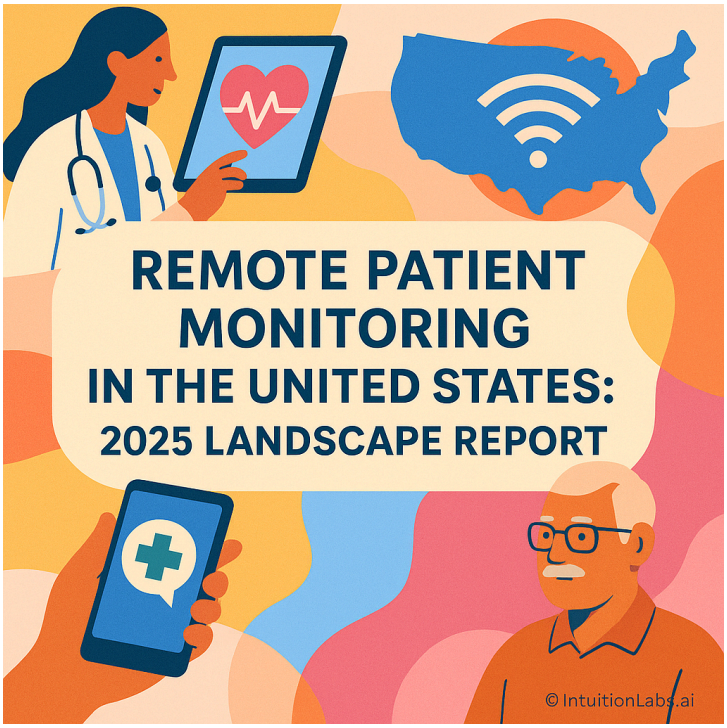

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RPM Landscape Overview and Adoption Trends

Remote patient monitoring (RPM) refers to using digital technologies to collect patients' health data outside of traditional care settings and transmit it to providers for assessment. RPM has existed for decades, but it gained unprecedented traction during the COVID-19 pandemic as telehealth surged (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) (Best Remote Patient Monitoring Companies-Optimize Health). Today, RPM is regarded as a pivotal tool for managing chronic diseases, improving outcomes, and extending care beyond hospital walls. In fact, nearly **50 million Americans** are already using some form of RPM device (27 Remote Patient Monitoring Statistics Every Practice Should Know), and **80% of Americans** are favorable toward incorporating RPM into medical care (27 Remote Patient Monitoring Statistics Every Practice Should Know). Provider adoption has also skyrocketed – **81% of clinicians** report using RPM in 2023 (a **305% increase** since 2021) (PR Newswire: Remote Patient Monitoring Adoption Increased over 300 Percent in Two Years - Alliance for Connected Care) – driven by the promise of reducing hospital readmissions, improving patient outcomes, and enabling *"hospital-at-home"* models of care.

Key drivers fueling RPM growth in the U.S. include the rising burden of chronic illnesses, an aging population, and a shift toward value-based care. Managing chronic conditions like heart disease, diabetes, and COPD requires continuous monitoring; RPM allows providers to catch warning signs (e.g. blood pressure spikes, arrhythmias) early and intervene before complications occur (Remote Patient Monitoring Market Insights 2024-2029 - Integration of AI in Remote Patient Monitoring, Surge in Demand for RPM Technology and Growing Use of Mobile Technologies and Smart Devices in RPM - ResearchAndMarkets.com). The U.S. population over age 65 is projected to grow by 47% from 2022 to 2050, creating higher demand for care at home (US Remote Patient Monitoring Market worth US$29.13 billion). At the same time, RPM is seen as a cost-effective way to reduce expensive hospital utilization. Surveys indicate the **top motivations** for RPM adoption are preventing rehospitalizations and enabling real-time vitals monitoring for proactive care (PR Newswire: Remote Patient Monitoring Adoption Increased over 300 Percent in Two Years - Alliance for Connected Care). Post-pandemic, patients also expect the convenience of virtual care – **43% of patients** cite convenience as the greatest benefit of RPM (27 Remote Patient Monitoring Statistics Every Practice Should Know) – and two-thirds of seniors wish to age in place at home (Hospital at home saves lives and money: CMS report-American Medical Association), bolstering demand for home monitoring services.

The **RPM market is expanding rapidly**. Industry analyses estimate the **U.S. RPM market** was valued around **$14–15 billion in 2024** and will double to **$29+ billion by 2030** (roughly 12–13% CAGR) (US Remote Patient Monitoring Market worth US$29.13 billion). Globally, the market was about **$39–40 billion in 2023** and is on track to reach ~$77 billion by 2029 (Remote Patient Monitoring Market Insights 2024-2029 - Integration of AI in Remote Patient Monitoring, Surge in Demand for RPM Technology and Growing Use of Mobile Technologies and Smart Devices in RPM - ResearchAndMarkets.com). By 2025, over **71 million Americans (26% of the population)** are expected to use some form of RPM service (27 Remote Patient Monitoring Statistics Every Practice Should Know), reflecting continued strong uptake. Notably,

adoption spans multiple clinical specialties. **Internal medicine** physicians account for the largest share of RPM usage (managing roughly 29% of RPM patients), followed by **cardiology** (21%) and **family practice** (19%) (Remote Patient Monitoring Use Skyrockets 1,300%-TechTarget). This corresponds to the high prevalence of chronic cardiac conditions and diabetes that benefit from monitoring. *Figure 1* illustrates the distribution of RPM services across specialties, underscoring that RPM is used broadly across primary and specialty care.

Figure 1: Distribution of RPM services by physician specialty, based on Medicare claims 2019–2022. Internal medicine and cardiology providers are the heaviest users of RPM (together ~50% of all RPM services), reflecting the focus on chronic disease management (Remote Patient Monitoring Use Skyrockets 1,300%-TechTarget).

Several recent **trends** are shaping the RPM landscape. One is the **integration of RPM with telehealth and "hospital-at-home"** programs. The pandemic catalyzed hospital-at-home models where acute patients are monitored at home with continuous pulse, oxygen, ECG and nurse tele-visits instead of occupying hospital beds (Fact Sheet: Extending the Hospital-at-Home Program-AHA) (Hospital at home saves lives and money: CMS report-American Medical Association). The Centers for Medicare & Medicaid Services (CMS) launched the Acute Hospital Care at Home waiver in 2020, and as of late 2024 over **350 hospitals** across 39 states have treated patients at home under this program (Hospital at home saves lives and money: CMS report-American Medical Association). Early results are very promising – a CMS report to Congress found **inpatient-level home care produced lower mortality and cost** than traditional hospital care (Hospital at home saves lives and money: CMS report-American Medical Association). Patients and caregivers also gave highly positive feedback to hospital-at-home programs (Hospital at home saves lives and money: CMS report-American Medical Association). This success is accelerating interest in RPM for acute care. In a 2023 clinician survey, 45% of providers were already using RPM for acute monitoring (e.g. hospital-at-home), and 77% predicted that within 5 years, RPM-enabled care will outpace traditional inpatient care (PR Newswire: Remote Patient Monitoring Adoption Increased over 300 Percent in Two Years - Alliance for Connected Care).

Another trend is **advancing technology** – today's RPM leverages IoT connectivity, wearables, and even AI. Modern RPM devices can continuously stream data (heart rate, glucose, oxygen, etc.) via cellular or Wi-Fi to cloud platforms. The **integration of artificial intelligence (AI)** is enhancing RPM by sifting through data to detect early signs of trouble. For example, combining AI with IoT devices enables algorithms to flag asymptomatic atrial fibrillation or heart failure decompensation before the patient even notices symptoms (Remote Patient Monitoring Market Insights 2024-2029 - Integration of AI in Remote Patient Monitoring, Surge in Demand for RPM Technology and Growing Use of Mobile Technologies and Smart Devices in RPM - ResearchAndMarkets.com). Some RPM platforms now include FDA-cleared predictive analytics; **Biofourmis**, for instance, offers FDA-approved algorithms that analyze a patient's vitals to predict heart failure exacerbations, enabling earlier intervention (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). These kinds of data-driven insights can improve outcomes – one health system partnering with Biofourmis reported cutting 30-day readmissions by **70%** and reducing cost of care by 38% using its AI-guided RPM program (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). Overall, the convergence of RPM with telehealth, AI analytics, and an aging society's needs has made remote monitoring "mainstream." As one analysis noted, RPM adoption from 2019 to 2022 **surged ~1,300%** in the U.S., a reflection of how quickly virtual care has been embraced in both chronic and acute settings (Remote Patient Monitoring Use Skyrockets 1,300%-TechTarget).

Regulatory and Policy Context (FDA, CMS, HIPAA, etc.)

Regulatory developments in recent years have both enabled and shaped the RPM boom. On the reimbursement side, **Medicare and CPT coding changes** were a game-changer. Starting in 2018, the **Centers for Medicare & Medicaid Services (CMS)** introduced new billing codes to pay for remote physiologic monitoring services (Remote Patient Monitoring Use Skyrockets 1,300%-TechTarget). Medicare now reimburses providers for time spent setting patients up on RPM devices, furnishing devices/supplies, and reviewing/transmitting patient data on a monthly basis. Key **CPT codes** include **99453** (one-time RPM device setup/education), **99454** (supply of device & data transmission each 30 days), and **99457/99458** (20-minute increments of clinical staff time managing/interacting with the patient per month) (Billing for remote patient monitoring-Telehealth.HHS.gov). These RPM services require at least 16 days of patient biometric data in a 30-day period (for physiologic monitoring) and are intended for patients with chronic or acute conditions that necessitate ongoing tracking (Billing for remote patient monitoring-Telehealth.HHS.gov) (Billing for remote patient monitoring-Telehealth.HHS.gov). In 2022, CMS expanded support to **Remote Therapeutic Monitoring (RTM)** codes as well, which cover patient-reported data (e.g. pain levels, medication adherence) for respiratory or musculoskeletal conditions (Remote Patient Monitoring Market Insights 2024-2029 - Integration of AI in Remote Patient Monitoring, Surge in Demand for RPM Technology and Growing Use of Mobile Technologies and Smart Devices in RPM - ResearchAndMarkets.com). By allowing providers to **bill ~$120–$150 per patient per month** for Medicare RPM services (which can sum to **>$1,000 per patient annually** (27 Remote Patient Monitoring Statistics Every Practice Should Know)), these policies have created a sustainable business model for RPM programs. As a result, physician adoption jumped – by 2022, **75% of U.S. doctors** (urban and rural) had adopted some form of RPM for chronic care management (27 Remote Patient Monitoring Statistics Every Practice Should Know). Many private insurers have followed Medicare's lead, reimbursing RPM for chronic disease management, and **42 state Medicaid programs** now cover RPM for certain populations (27 Remote Patient Monitoring Statistics Every Practice Should Know).

FDA regulation primarily applies to the devices and software used in RPM. Many RPM devices (e.g. blood pressure cuffs, glucose monitors, pulse oximeters, wearables with medical functions) are classified as medical devices and require FDA clearance or approval to be marketed for clinical use. For example, continuous glucose monitors like **Dexcom** and **Abbott's Freestyle Libre** have FDA approval and are widely used for remote diabetes monitoring (US Remote Patient Monitoring Market worth US$29.13 billion). The FDA has also cleared innovative RPM technologies such as implantable pulmonary artery sensors for heart failure (e.g. CardioMEMS by Abbott) and wearable ECG patches. A recent example is **GE Healthcare's Portrait Mobile**, a wireless wearable vital sign monitor, which received FDA 510(k) clearance in 2023 to enable continuous monitoring of patients' vitals in and out of hospital (US Remote Patient Monitoring Market worth US$29.13 billion). FDA's oversight extends to certain RPM software algorithms too: if an RPM platform's software performs clinical analysis or diagnosis (termed Software as a Medical Device), it may require FDA review. Companies like Biofourmis have pursued FDA clearance for their AI-driven clinical analytics embedded in RPM platforms (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). **All RPM solutions must also comply with HIPAA** and medical data privacy laws. This means patient-generated health data must be transmitted and stored securely (often encrypted in transit and at rest) on HIPAA-compliant platforms, with strict access controls to protect Protected Health Information (PHI). In fact, Medicare's rules explicitly require that RPM devices must meet the FDA's definition of a medical device and that data be electronically and **securely** collected and transmitted for clinician review (Billing for remote patient monitoring-Telehealth.HHS.gov) (Billing for remote patient monitoring-Telehealth.HHS.gov). Most

reputable RPM vendors emphasize their **HIPAA compliance**, employing measures like user authentication, audit logs, and partnerships with HITRUST-certified cloud providers to ensure patient data privacy.

Broader health policy trends are also supporting RPM. During COVID-19, federal and state authorities loosened certain restrictions (for example, allowing the home as an "originating site" for telehealth and RPM, and enabling cross-state care), which made it easier to deploy RPM nationally. While some emergency measures are temporary, there is strong advocacy to **make RPM coverage permanent**. The Consolidated Appropriations Act of 2023 extended Medicare's hospital-at-home waiver through end of 2024 (Hospital at home saves lives and money: CMS report-American Medical Association), and legislation has been proposed to extend it further, given the positive outcomes. CMS's 2024 physician fee schedule maintained reimbursement for RPM services and clarified that RPM can be billed alongside chronic care management as long as time isn't double-counted (Billing for remote patient monitoring-Telehealth.HHS.gov). Additionally, agencies like the **FCC** and NIH have provided grants to improve broadband access and study digital health interventions in rural communities, recognizing that internet connectivity is vital for RPM success in underserved areas. In summary, **regulatory momentum is favorable** – Medicare payment is in place, many states mandate or encourage telehealth parity (which can include RPM), and the FDA has been approving a wave of connected health devices. Healthcare organizations also ensure any RPM vendor they work with adheres to medical device standards, data security protocols, and **interoperability** (e.g. using HL7/FHIR standards to integrate RPM data into EHR systems), which aligns with federal health IT interoperability goals.

Categories of RPM Solution Providers

The U.S. RPM ecosystem is composed of a **diverse array of solution providers**, which can be grouped into three broad categories: **hardware/device manufacturers**, **software/platform providers**, and **full-service RPM service platforms**. Often, these categories overlap – many full-service platforms bundle proprietary devices, and device makers often supply software – but it is useful to distinguish the primary focus of each type of provider.

Medical Device Manufacturers (Hardware-Focused RPM Solutions)

These players primarily develop **connected health devices** that generate the physiologic data for remote monitoring. They include both traditional medical device companies and newer wearable tech firms:

- **Cardiac and Implantable Device Companies:** Firms like **Medtronic**, **Boston Scientific**, and **Abbott** are notable RPM providers through their cardiac implant products. **Medtronic's MyCareLink™** system, for example, provides home communicators and mobile apps that transmit data from implanted pacemakers and defibrillators to physicians (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). This allows continuous remote monitoring of patients with implanted cardiac devices – an area Medtronic has led for years. Boston Scientific's LATITUDE platform similarly enables remote monitoring of their implanted cardioverter-defibrillators. Abbott enhances RPM with devices like the CardioMEMS HF sensor (an implanted sensor in heart failure patients that remotely reports pulmonary pressure) and wearable glucose monitors. These companies focus on *condition-specific RPM* (e.g. cardiac telemetry), often integrating **AI for arrhythmia detection** or trend analysis (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). With decades of expertise, they provide highly reliable FDA-approved devices and are incorporating more patient-friendly tech (Bluetooth home hubs, smartphone connectivity) to improve RPM usability.

- **Vital Sign Wearables and Sensor Companies:** A range of newer companies produce **wearable biosensors** for continuous vital sign tracking. Notable examples include **Philips** (which acquired BioTelemetry and now offers patches for continuous ECG and blood pressure monitoring), **GE Healthcare** (wireless wearables like the Portrait monitor (US Remote Patient Monitoring Market worth US$29.13 billion)), **Masimo** (the SafetyNet oxygen saturation patch), **VitalConnect** (a band-aid sized VitalPatch that measures ECG, heart rate, respiratory rate, etc.), **BioIntelliSense** (the BioButton multi-sensor patch), and **iRhythm** (the Zio patch for remote cardiac arrhythmia detection). These devices are typically prescribed to patients post-surgery or with chronic illness to continuously stream data (often via a paired smartphone or hub) to a cloud platform. Many were granted FDA emergency use or clearances during COVID-19 to monitor vitals remotely. They feed data into either the manufacturer's software or third-party RPM platforms. For instance, VitalConnect's patch has been used in hospital-at-home programs to monitor patients' ECG and vitals in real time, with nurses alerted to any abnormality.

- **Diabetes and Chronic Disease Device Makers:** Diabetes care has long been at the forefront of RPM. **Dexcom** and **Medtronic Diabetes** supply continuous glucose monitors that send glucose readings to apps every few minutes, enabling remote tracking of diabetic patients' control (Dexcom even secured FDA clearance for a next-gen biosensor "Dexcom Stelo" in 2024 (US Remote Patient Monitoring Market worth US$29.13 billion)). **Insulin pump** manufacturers and smart insulin pen companies also transmit dosing data for clinicians to review remotely. Beyond diabetes, companies like **Omron** (with its Bluetooth blood pressure cuffs and HeartGuide watch) and **Withings** or **iHealth** (connected scales, thermometers, pulse oximeters) provide the hardware foundation that many RPM programs use. These devices are generally FDA cleared and **Bluetooth-enabled**, and they can pair with a tablet or phone to automatically upload readings to an RPM software platform. Even consumer tech giants contribute hardware: the **Apple Watch**, while consumer-oriented, includes FDA-cleared ECG and arrhythmia detection features, and can alert wearers to irregular heart rhythms – essentially acting as an RPM device for atrial fibrillation. Similarly, **Fitbit** (now part of Google) and **Garmin** offer wearables that, when integrated via APIs, allow activity, heart rate, and sleep data to be remotely monitored for health insights. In summary, the hardware segment of RPM ranges from specialized clinical devices to mainstream wearables, all enabling continuous **data collection** (glucose, blood pressure, heart rate, oxygen, etc.) that is the lifeblood of remote monitoring.

RPM Software Platforms and Integrators (Data and IT-Focused Solutions)

Another segment of the RPM market focuses on the **software infrastructure** and data integration needed to make remote monitoring data useful. These providers typically do not manufacture unique devices; instead, they aggregate data from many third-party devices and present it in dashboards or integrate it into electronic health records (EHRs):

- **EHR-Integrated RPM Modules:** Major EHR vendors have incorporated RPM capabilities into their systems. For example, **Epic**'s patient portal MyChart can ingest patient-generated health data (via Apple HealthKit or Bluetooth device integrations) and display trends to clinicians – essentially a "deviceless" RPM approach leveraging patients' own devices. Epic was highly rated for virtual care integration (KLAS: Elation Health, Lightbeam among top virtual care tools-TechTarget). **Oracle Cerner** has similar integrations through its CareAware platform, and Oracle has been noted as a prominent player in enabling RPM data flows (US Remote Patient Monitoring Market worth US$29.13 billion by ...). These solutions appeal to health systems that want RPM data directly within the clinical workflow. Lightbeam Health is another IT vendor whose **Deviceless Remote Patient Monitoring** solution topped KLAS ratings in 2024–2025 (KLAS: Elation Health, Lightbeam among top virtual care tools-TechTarget). Lightbeam's approach aggregates data (including patient-reported metrics) without relying on proprietary hardware, focusing on population health analytics to identify at-risk patients. The high KLAS scores (93.6) for such EHR-centric and deviceless solutions indicate that **seamless data integration** and ease-of-use for clinicians are critical. Many providers prefer RPM solutions that automatically populate into the patient's chart and trigger alerts in the EHR, rather than standalone systems.

- **Middleware and API Aggregators:** Some companies specialize in connecting *any* device to *any* platform. **Validic** is a well-known middleware provider that offers an API to pull data from hundreds of consumer and medical devices (glucometers, fitness trackers, blood pressure monitors, etc.) and feed it into health IT systems securely. Similarly, **Human API** and **Integron** provide device-agnostic data hubs. These integrators often work behind the scenes for digital health programs – for instance, a pharma company running a clinical trial might use Validic's platform to collect participant data from Fitbit and other home devices, all under one data stream. By handling the **technical integration and data normalization**, these platforms allow healthcare IT teams to focus on analysis rather than device management. They ensure that RPM data is standardized (e.g. all blood pressure readings in mmHg with timestamps) and **interoperable** with systems like EHRs or research databases. Such solutions are especially valuable in multi-center research or when a health system wants flexibility in device choice.

- **Telehealth & Chronic Care Management Platforms:** A number of telehealth companies and chronic care management programs incorporate RPM as part of a larger virtual care offering. For example, **Teladoc Health** – a leader in telemedicine – acquired **Livongo** in 2020, which was a digital health company focused on diabetes management via connected glucometers and coaching. Through this, Teladoc offers an integrated chronic disease platform where patients get devices (like a smart glucometer or blood pressure cuff), and data flows to coaches and physicians who engage via telehealth. **Omada Health** similarly provides programs for diabetes prevention, diabetes management, and hypertension, bundling wireless scales or BP cuffs with an app and remote coaching. While these are often positioned as wellness or disease management solutions for employers and payers, they essentially function as RPM systems (monitoring patient metrics and intervening remotely). The difference is these platforms usually come with a human coaching element and behavioral science focus. Another example is **Lark Health**, an AI coaching app that uses data from connected devices (like glucometers or fitness trackers) to provide real-time feedback to patients managing chronic conditions. These hybrid telehealth-RPM models underscore that successful remote monitoring often requires not just data collection but also patient engagement and feedback loops.

In general, software-centric RPM providers aim to **streamline data collection, analysis, and integration**. They ensure that clinicians get actionable insight from the flood of remote data – often by using visualization dashboards, automated alerts for threshold breaches, and even predictive risk scores. Importantly, they tackle the "last mile" of integration by feeding RPM data into EHRs or care management workflows. Some also assist with the **logistics of RPM** (enrollment, device inventory, etc.) via software – for instance, an RPM platform might automatically send an alert if a patient hasn't transmitted any weight readings for a week (indicating a potential technical issue or non-adherence) and prompt outreach. This category of providers typically markets to IT departments and physician groups who need a scalable way to incorporate remote data without replacing their existing health IT systems.

Full-Service RPM Platforms (End-to-End Service Providers)

The third category is composed of companies offering **end-to-end RPM solutions**, often targeting healthcare providers (hospitals, clinics) that want to outsource much of the work of remote monitoring. These full-service vendors provide a **combination of hardware devices, patient engagement software, and clinical monitoring services** (e.g. nursing staff or call centers), essentially delivering a turnkey RPM program. Many also assist with compliance, billing, and workflow integration. Below are profiles of several major full-service RPM solution providers in the U.S., categorized by their areas of focus:

- **Health Recovery Solutions (HRS):** Based in New Jersey, HRS is a leading RPM platform known for its comprehensive kit and software called **PatientConnect®** (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). HRS has consistently been top-rated by KLAS (ranked #1 Best in KLAS for RPM in 2020–2023) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) due to high client satisfaction. The HRS solution includes a 4G tablet pre-loaded with a patient-friendly app and a suite of Bluetooth devices (blood pressure cuff, pulse oximeter, scale, glucometer, etc.). It offers **90+ disease-specific care plans** that guide patients in monitoring conditions ranging from heart failure to COPD (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). Providers use a clinician dashboard to track readings, and HRS facilitates communication via secure texting, phone, or video directly with patients (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). The platform emphasizes patient engagement with educational content and symptom surveys, and it has proven to reduce hospital readmissions in post-discharge populations (case studies often cite significant drops in 30-day readmit rates). HRS also stands out for workflow features like automatic time tracking for billing and EHR integration. Many home health agencies and hospitals have adopted HRS to power their home telemonitoring programs, given its reputation and scalability.

- **Vivify Health (Optum):** Vivify was one of the pioneers of RPM-as-a-service, providing remote care kits and a monitoring platform, particularly popular among large hospital systems. (Optum acquired Vivify Health in 2019, expanding its reach under the UnitedHealth Group umbrella.) Vivify's solution similarly centers on sending patients home with a tablet and wireless vitals devices, and it supports a wide range of use cases from chronic disease management to post-surgical monitoring. Vivify's platform stratifies patients by risk and alerts clinicians when readings fall outside thresholds. It also integrates with Epic and Cerner, which helped drive its adoption in health systems. Under Optum, the Vivify service can be bundled with care management services or payer programs. While specific metrics aren't public, Vivify's early clients (like the Veterans Health Administration) demonstrated improved outcomes and high patient satisfaction, which helped validate RPM programs nationally.

- **Optimize Health:** Seattle-based Optimize Health provides a **full-suite RPM and chronic care management (CCM) solution** aimed at physician practices and clinics. Their platform is known for being **user-friendly and workflow-friendly**, offering features such as real-time vital data trending, secure two-way texting with patients, and integration of RPM and billing in one interface (Best Remote Patient Monitoring Companies-Optimize Health). Optimize Health not only supplies the **connected devices** needed (blood pressure cuffs, scales, etc.), but also offers optional **clinical monitoring services by licensed nurses** (Best Remote Patient Monitoring Companies-Optimize Health). This means a clinic can let Optimize's team handle the 24/7 monitoring and only get involved when an alert or escalation is necessary. Optimize Health highlights that its program can *reduce practice workload* while generating new revenue. It even supports insurance verification and RPM billing documentation to ensure practices capture reimbursement (Best Remote Patient Monitoring Companies-Optimize Health). According to company data, organizations using Optimize Health have seen a **30% reduction in emergency department visits** among their RPM patient cohorts (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) – indicating more proactive management prevented crises. By packaging technology, staffing, and billing support, these kinds of full-service vendors make it easier for smaller practices to implement RPM without investing in their own infrastructure.

- **Accuhealth:** Accuhealth is another top-ranked turnkey RPM provider, notable for its **"no-setup" approach and 24/7 monitoring center**. They provide clinics with 4G-enabled devices that come pre-configured – patients simply plug in a scale or use a cuff and readings automatically transmit (no Wi-Fi or phone pairing needed). Accuhealth advertises "RPM in 24 hours," meaning they can get a practice up and running with integration into the EHR within a day (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). They include **free EHR integration** and unlimited telemedicine visits as part of their package (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). As of 2023, Accuhealth reported serving over **100,000 patients** on its platform (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). Their focus on ease-of-use and comprehensive service (they handle everything from device logistics to patient enrollment and data review) has made them a preferred partner for many clinics. Like others, Accuhealth's software automates time tracking and compliance (e.g. ensuring the 16-day measurement rule is met) to maximize billing and audit readiness (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024).

- **Cadence:** A newer entrant (founded 2020), **Cadence** has quickly risen by partnering directly with large health systems to manage patients with common chronic conditions. Cadence's platform supports patients with **hypertension, heart failure, COPD, and Type 2 diabetes**, providing each patient with a kit (e.g. BP cuff, glucometer, pulse-ox) and a mobile app (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). What differentiates Cadence is its strong clinical program – Cadence employs its own clinicians who remotely titrate medications and manage treatment plans under protocols from the patient's physicians. This *proactive care* approach means Cadence doesn't just alert the doctor to an issue; their team can immediately adjust a patient's diuretic dose for heart failure or reach out to counsel a patient with rising blood sugar, for example. Cadence emphasizes **two-way EHR integration** (so data and notes flow into the health system's records) and compliance with all relevant regulations, so from the provider's perspective it's an extension of their team (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). By going beyond monitoring into active disease management, Cadence aims to improve long-term outcomes. Early results with partner hospitals have shown reductions in heart failure readmissions and better blood pressure control, validating the model. The company's rapid growth and major health system contracts underscore the demand for turnkey solutions that also help address staffing gaps in chronic care.

- **Athelas:** Athelas is a California-based RPM company that provides an **integrated device suite** and platform, with a particular strength in laboratory monitoring at home. Its flagship device, **Athelas Home**, is an AI-powered point-of-care testing device that allows quick blood analysis (for example, white blood cell counts) from a fingerstick in the patient's home (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). This has made Athelas popular in managing conditions like **clozapine therapy, oncology, and other cases where frequent blood counts are needed** (e.g. chemotherapy patients, or monitoring for neutropenia) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). Alongside this unique device, Athelas also supplies standard vitals monitors (BP, weight, glucose) and a software platform for clinics. They boast a user-friendly interface and **robust billing support**, helping practices maximize reimbursements through their RPM and even Chronic Care Management programs (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). Athelas has been adopted by a range of providers from large health systems to solo practitioners (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024), likely due to its focus on *revenue enablement* (their platform directly shows practices the revenue generated from RPM each month) and its ability to extend care into new areas (like mental health clinics using Athelas to monitor psychiatric medication side effects via blood tests). By combining diagnostics with monitoring, Athelas represents an evolution of RPM into a more comprehensive remote care platform.

- **CareVive:** In the realm of specialized RPM, **CareVive** stands out for focusing on **oncology patients**. This Boston-based company recognized that traditional RPM vitals (blood pressure, etc.) don't fully meet cancer care needs (Best Remote Patient Monitoring Companies-Optimize Health). The CareVive platform instead emphasizes **patient-reported outcomes (PROs)** – it allows cancer patients to report symptoms, side effects, and wellness metrics from home, which are then combined with clinical data and guidelines to inform care (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). CareVive integrates bi-directionally with EHRs used by oncologists and is used for things like oral chemotherapy monitoring, symptom management, and survivorship care planning (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). Uniquely, CareVive built a proprietary Clinical Intelligence System that mines EHR data and published oncology guidelines to generate personalized care plans and alerts (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). For example, if a patient on chemotherapy reports moderate neuropathy and the EHR shows a certain regimen, the system might prompt the care team with an evidence-based recommendation (or trigger an alert if a serious symptom is reported). CareVive collaborates not only with oncology clinics but also with **life sciences researchers**, as aggregating PRO data and outcomes from remote monitoring can help in oncology drug development (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). By addressing the *unique needs of cancer patients* (who often require symptom tracking, psychosocial support, and swift management of treatment side effects), CareVive fills an important niche that general RPM platforms don't explicitly cover.

- **Biofourmis:** Biofourmis is a Boston-based digital health company that operates at the intersection of RPM and **pharmaceutical digital therapy**. Founded in 2015, it has quickly become a well-known RPM vendor partnering with over **50 health systems and pharma companies globally** (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). Biofourmis offers an AI-driven platform called **Biofourmis Care** that supports continuous monitoring across high-acuity and chronic patients. A core component is its wearable biosensor (Biofourmis acquired a wearable called Biovitals™), which captures multi-parameter vital signs, feeding into algorithms that can predict complications. For instance, Biofourmis created an FDA Breakthrough-designated algorithm for predicting heart failure hospitalizations days in advance by analyzing subtle vital sign trends. In practice, Biofourmis is often used for **hospital-at-home programs and post-discharge monitoring** to manage hospital capacity issues (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). It also has a strong presence in clinical trials – pharmaceutical clients use Biofourmis to monitor trial participants remotely and even as a platform for "digital therapeutics" (prescription software combined with monitoring to treat disease). The platform is cloud-based and highly configurable, and the company provides clinical staff to support monitoring if needed. In terms of outcomes, Biofourmis has published that its technology enabled a **70% reduction in 30-day readmissions** and 38% cost reduction in a heart failure population by catching deterioration early (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). With significant venture funding, Biofourmis exemplifies the cutting-edge of RPM, blending regulated algorithms, novel sensors, and partnerships in both care delivery and drug development.

- **MD Revolution:** MD Revolution (MD Rev) is a San Diego-based company that offers a **combined RPM and care management program**. Their platform, **RevUp**, was initially known for outsourcing Medicare Chronic Care Management (CCM) services, and it now integrates RPM data as well (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). MD Revolution's value proposition is that a clinic can sign up and immediately have a turnkey team and technology to handle both monthly chronic care coordination calls and RPM monitoring. The RevUp software aggregates patient vitals, provides alerts for clinical review, and simultaneously tracks the time clinicians spend on each patient to facilitate *billing for both RPM and CCM*. MD Rev emphasizes its **interoperability** – it can pull patient problem lists and meds from the EHR to drive personalized alerts – and the use of **AI-assisted workflows** to triage which patients need human outreach next (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024). Notably, MD Revolution often highlights that there is **no upfront cost** to the practice (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024); they bill Medicare for RPM/CCM and take a portion, making it financially low-risk for providers to start. By combining RPM with care management, MD Revolution aims to address both the data and the *follow-up actions* – their nurses or medical assistants reach out to patients when readings are abnormal, coach patients on lifestyle, and can even help coordinate prescriptions or appointments. This comprehensive approach can lead to improved chronic disease indicators over time (better A1c, blood pressure control), though specific stats vary by program. MD Revolution's success with practices shows the appetite for outsourced solutions that lighten the load on in-house staff while improving patient care continuity.

- **Philips eCareCoordinator/eCareCompanion:** Philips Healthcare, a global medical technology firm, has an RPM platform called **eCareCoordinator** (for clinicians) paired with eCareCompanion (the patient app). This solution came from Philips' acquisition of Remote Cardiac Services and others. It focuses on common chronic conditions like **heart failure, COPD, and diabetes**, and notably integrates **AI for trend analysis** of the incoming data (Best Remote Patient Monitoring Companies-Optimize Health). Patients typically use a tablet-based app (eCareCompanion) to answer symptom questions and sync their Philips-provided devices (scale, BP cuff, etc.). Clinicians use eCareCoordinator to view color-coded risk dashboards. Philips has leveraged its hospital monitoring expertise to create alarm algorithms that, for example, flag a combination of weight gain and SpO2 drop in a heart failure patient as a risk of impending decompensation. They also include educational content and adherence reminders. Philips' RPM platform has been deployed in programs like the VA telehealth services and by health systems using Philips ICU telemonitoring (eICU) who want to extend into home monitoring. Being a large company, Philips ensures robust security and device quality, and it can integrate with other Philips systems (like imaging or hospital monitors) to provide a more holistic view of patient data. While Philips's solution might not be as customizable as some startups, its longevity and backing by a major vendor give comfort to organizations that require FDA-approved devices and a proven track record.

- **Other Notable Providers:** The RPM field is crowded, and it's worth mentioning a few others that illustrate the range of offerings:
  - **PeriGen (now part of Halma)** – a specialized RPM-like platform for *perinatal monitoring*. PeriGen's solution uses AI to monitor fetal heart rate and maternal contraction patterns in obstetric patients, alerting clinicians to potential issues in labor (Best Remote Patient Monitoring Companies-Optimize Health). This addresses a niche but critical need: consistent remote observation of high-risk pregnancies, either in inpatient labor units or for moms at home on bedrest.
  - **Agartee** – a smaller provider focusing on pulmonary and sleep disorder monitoring, as well as geriatric care (Best Remote Patient Monitoring Companies-Optimize Health). They incorporate behavior-change coaching into their RPM programs for conditions like sleep apnea or COPD, highlighting that RPM can be preventive (encouraging healthier habits) in addition to reactive.
  - **HealthSnap** – a Miami-based startup offering a **virtual care platform** that includes RPM and nutritional/dietary coaching. It provides connected devices and an app, plus back-end integration to identify patients eligible for RPM (and handle billing). HealthSnap targets physician groups looking to outsource their entire virtual chronic care service.
  - **Hicuity Health** – formerly Advanced ICU Care, this company is the largest U.S. provider of tele-ICU services, and it has expanded into remote telemetry and nursing observation (virtual "sitters"). While focused on hospital monitoring, Hicuity shows the continuum of remote care: their platform can monitor patients in ICU or step-down units from a command center, then hand off to home-based monitoring on discharge. They bring extensive clinical protocols to remote monitoring and can customize to a facility's needs (e.g. continuous ECG monitoring on a hospital's cardiac ward from off-site) (Best Remote Patient Monitoring Companies-Optimize Health).
  - **100Plus** – a San Francisco company specifically helping primary care practices start RPM programs for Medicare patients. 100Plus sends patients 4G devices (pre-configured), coaches the practices on enrollment, and advertises no upfront cost (recouping via Medicare billing). Companies like 100Plus illustrate the demand among physician offices to have a *hassle-free RPM solution* mainly for revenue generation and patient retention.
  - **Clear Arch Health** – a subsidiary of MobileHelp, provides RPM and Personal Emergency Response Systems (PERS) together. For elderly populations, they integrate fall detection pendants with vital sign monitoring, addressing both preventive monitoring and urgent response if an incident occurs. Clear Arch and similar vendors often appeal to home care agencies and senior living facilities aiming to keep patients safe at home longer.

Given this crowded vendor landscape, healthcare IT analysts stress the importance of choosing an RPM solution that fits an organization's unique needs. Table 1 below provides a **comparison of select major RPM providers** across their features, device offerings, clinical focus areas, and service models.

Table 1: Comparison of Selected RPM Solution Providers in the U.S.

Provider	Category	Devices/Compatibility	Clinical Focus & Specialties	Notable Features & Pricing
Health Recovery Solutions (HRS) (Top 10 Best Remote Patient Monitoring (RPM)	Full-service RPM Platform (Software	Turnkey kit with tablet and Bluetooth vitals devices (BP, SpO2, scale, etc.); integrates other BT devices	Broad chronic care (CHF, COPD, diabetes, etc.), post-discharge	90+ customizable care plans; clinician dashboard with

Provider	Category	Devices/Compatibility	Clinical Focus & Specialties	Notable Features & Pricing
Companies 2024) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024)	+ Devices + Service)		monitoring, palliative care (Best Remote Patient Monitoring Companies- Optimize Health)	alerts; two-way messaging & video; **KLAS top-rated** for user satisfaction; Pricing: per patient per month (often reimbursed by CMS), with no upfront cost to provider (HRS supports billing) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024).
Medtronic (MyCareLink) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024)	Device-centric RPM (Hardware + App)	Home communicators and apps for Medtronic cardiac implants; also integrates weight scales, BP for heart failure programs	**Cardiology** – monitoring of pacemakers, ICDs, CRT devices; also used in cardiac rehab and arrhythmia management	Deep device expertise (75+ years); AI-powered data analysis for arrhythmia episodes (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024); secure CareLink network for data; Pricing: device included with implant therapy, software access typically bundled for clinics (no

Provider	Category	Devices/Compatibility	Clinical Focus & Specialties	Notable Features & Pricing
				separate patient fee).
Philips eCareCoordinator (Best Remote Patient Monitoring Companies-Optimize Health)	Full-service RPM Platform (Software + Devices)	Philips-provided tablet app + wireless BP, weight, SpO2, etc.; can ingest third-party device data as well	**Cardiology, COPD, Diabetes** – supports heart failure, COPD, diabetes management; also used in multi-condition programs for seniors	Enterprise-grade solution from major vendor; AI-driven trend analysis for early warning (Best Remote Patient Monitoring Companies-Optimize Health); EHR integration available; Pricing: enterprise licensing (often part of broader Philips monitoring contracts).
Optimize Health (Best Remote Patient Monitoring Companies-Optimize Health)	Full-service RPM + Clinical Services	Provides FDA-approved wireless BP monitors, glucose meters, scales, pulse ox, etc., or integrates patient-owned devices	**Primary Care Chronic Disease** – hypertension, diabetes, weight management; general adult medicine RPM for clinics	Patient-centric design; unified platform for RPM + billing; offers **nurse monitoring services** addon (Best Remote Patient Monitoring Companies-Optimize Health); handles insurance verification and device logistics; Pricing:

Provider	Category	Devices/Compatibility	Clinical Focus & Specialties	Notable Features & Pricing
				subscription per practice + per-patient fees, flexible models (including revenue share from reimbursements).
Accuhealth (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024)	Full-service RPM + 24/7 Monitoring Center	4G-enabled devices (no smartphone needed) for BP, weight, SpO2, glucose; quick EHR plug-in for data sync	**Primary Care and Multi-Specialty** – serves hypertension, diabetes, COPD, etc. across over 100k patients; 24/7 vitals monitoring for any high-risk patients	**Turnkey integration** (within 24h); free EHR integration; unlimited telehealth visits included (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024); automated time tracking for billing; Pricing: zero upfront – costs covered via Medicare RPM billing (Accuhealth typically takes a share of reimbursed amount).
Cadence (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) (Top 10	Full-service RPM + Virtual Clinicians	Cadence supplies cellular devices for BP, glucometer, pulse-ox, scale; integrates with	**Chronic Disease (Cardio-Pulmonary)** – specializes in	**Clinical intervention focus** – Cadence's own RNs/APRs adjust

Provider	Category	Devices/Compatibility	Clinical Focus & Specialties	Notable Features & Pricing
Best Remote Patient Monitoring (RPM) Companies 2024)		Epic and Cerner for data flow	heart failure, hypertension, COPD, Type 2 diabetes management in partnership with health systems	meds under protocol; two-way EHR integration for seamless workflows (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024); scalable to large populations (e.g. health system-wide programs); Pricing: typically risk-sharing or PMPM contracts with health systems, tied to outcomes and savings.
Athelas (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024)	Full-service RPM + Diagnostic Device	Suite of devices: Athelas Home blood testing device (for WBC, etc.), plus connected BP monitor, scale, etc.; data via Athelas app	**Oncology & Specialty** – monitors chemo patients, psychiatric patients on blood-count affecting meds, as well as standard chronic disease vitals	Unique **in-home lab testing** capability; real-time alerts on critical lab/vital changes; easy interface for patients and docs; RPM **billing management** tools (ensures quick reimbursements) (Top 10 Best Remote Patient

Provider	Category	Devices/Compatibility	Clinical Focus & Specialties	Notable Features & Pricing
				Monitoring (RPM) Companies 2024); Pricing: monthly per patient, often via reimbursement (promotes revenue generation for clinics).
CareVive (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024)	Software Platform (RPM + PROs)	Web portal for providers and mobile-friendly app for patients; integrates with EHRs; uses standard devices as needed but focuses on symptom input	**Oncology** – remote management of cancer patients' symptoms, oral chemotherapy adherence, survivorship monitoring	**Oncology-specific content** (symptom surveys, tailored education); proprietary Clinical Intelligence System combines EHR data + guidelines to recommend care interventions (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024); supports research data capture; Pricing: enterprise subscriptions (often cancer center or hospital-wide) or per-enrolled patient; ROI via

Provider	Category	Devices/Compatibility	Clinical Focus & Specialties	Notable Features & Pricing
				improved outcomes and potential bundled payment gains.
Biofourmis (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024)	Full-service RPM + Advanced Analytics	Worn biosensor patch (continuous multi-vital monitoring) plus patient app; can also integrate other devices (e.g. blood glucose); cloud analytics platform	**Hospital-at-Home & High-Acuity** – cardiac post-surgery, heart failure, oncology (e.g. post-chemo monitoring), complex chronic patients; also used in **Pharma trials** and digital therapeutics	**FDA-approved analytics** for predictive monitoring (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024); can deploy hospital-level care protocols at home; offers staffing (tele-nurses) to partner with local clinicians; demonstrated large reductions in readmissions and cost (e.g. 70% drop in 30-day readmit) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024); Pricing: tailored contracts with providers or pharma (often subscription + service fees), focusing on ROI

Provider	Category	Devices/Compatibility	Clinical Focus & Specialties	Notable Features & Pricing
				from averted admissions.
AiCure (Best Remote Patient Monitoring Companies-Optimize Health)	Software Platform (RPM for Trials)	Uses patients' existing smartphones (app) and any required devices (medication sensor, wearable) depending on trial; AI visually confirms medication intake via phone camera	**Pharmaceutical Clinical Trials** – medication adherence monitoring and digital biomarkers in trial participants (any therapeutic area)	Leverages **AI and computer vision** to ensure participants take study medication correctly (patient videos are analyzed by AI) and to collect ePROs and vitals; integrates with electronic data capture for trials; proven to improve adherence and data quality in studies; Pricing: contract per trial (CRO model), value in accelerating drug development (Best Remote Patient Monitoring Companies-Optimize Health).
Current Health (Best Buy Health) (Best Buy Health-Clinical Trials) (Best Buy Health-Clinical Trials)	Full-service RPM + Logistics (Care-at-Home)	FDA-cleared Current Health wearable monitor (tracks SPO2, pulse, temp, etc.), tablet for surveys, and option to integrate additional devices (glucose, BP);	**Hospital-at-Home and Clinical Trials** – acute care at home, post-acute transitions, and	**Retail-powered logistics** (Best Buy's supply chain delivers kits to patients' homes and can even install

Provider	Category	Devices/Compatibility	Clinical Focus & Specialties	Notable Features & Pricing
		end-to-end service including device delivery and setup	used by pharma for monitoring trial patients remotely	devices); partnered with 5 of top 10 pharma for trials (Best Buy Health-Clinical Trials); flexible platform handles continuous monitoring or spot-checks; configurable alarms for customized alert thresholds (Best Buy Health-Clinical Trials); Pricing: enterprise agreements (health systems, pharma) often per patient per month or per trial participant, with Best Buy focusing on service and support quality.

(Sources: Company websites and reports (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024) (Best Remote Patient Monitoring Companies-Optimize Health), KLAS and industry analyses (KLAS: Elation Health, Lightbeam among top virtual care tools-TechTarget))

As shown above, RPM providers differentiate themselves through features like the types of devices supported, the level of service (do they supply clinical staff or just technology?), and specialty focus. Some target large health systems with enterprise platforms, while others cater to small clinics by emphasizing ease of use and reimbursement support. Pricing models vary – many operate on a **per patient per month subscription** (often aligning with Medicare reimbursement of ~$120 PMPM (27 Remote Patient Monitoring

Statistics Every Practice Should Know)), whereas others engage in value-based contracts or one-time licensing deals. It's worth noting that the RPM vendor landscape is dynamic; consolidation is ongoing (Best Buy's acquisition of Current Health (Retail giant Best Buy snaps up remote monitoring company Current ...), Phillips' acquisitions, etc.), and new startups continue to emerge in niches. Healthcare organizations often pilot multiple solutions before standardizing, and ensure any vendor can meet regulatory requirements (FDA device clearance, HIPAA compliance, data interoperability) and demonstrate outcomes.

RPM in Pharmaceutical Research and Clinical Trials

Beyond direct patient care, RPM has become increasingly important in the **pharmaceutical and clinical research industry**. Drug developers and clinical trial sponsors are leveraging remote monitoring to gather more robust real-world data, keep patients safe between study visits, and enable **decentralized clinical trials (DCTs)**. In a traditional trial, data comes from infrequent site visits; RPM allows continuous data capture of vital signs, medication adherence, and patient-reported outcomes while participants go about their daily lives. This can improve trial efficiency and data quality.

Several RPM solution providers specialize in or have dedicated offerings for the pharma market:

- **Current Health (Best Buy Health) – Clinical Trials Platform:** Current Health's care-at-home technology is not only used by health systems but also by pharma sponsors. The platform touts partnerships with **5 of the top 10 pharmaceutical companies** globally (Best Buy Health-Clinical Trials). For example, oncology trials have used Current Health to monitor patients' vital signs and symptoms after receiving experimental therapies. The company provides a "trial in a box" kit including a wearable vital monitor and tablet, and crucially Best Buy's Geek Squad logistics can deliver and set up devices in participants' homes. This addresses a major challenge in trials – getting technology into patients' hands and ensuring it works correctly. Current Health enables **continuous or intermittent monitoring** depending on study needs (Best Buy Health-Clinical Trials), and its dashboard allows study teams to configure custom alerts (e.g. flag if a patient's heart rate exceeds a threshold, which could signal an adverse event) (Best Buy Health-Clinical Trials). In one case with the Sarah Cannon Research Institute, Current Health supported moving CAR-T cancer therapy patients from the hospital to home monitoring, saving 1,200+ hospital bed days and still catching any critical events in real time (Best Buy Health-Clinical Trials). For pharma, such capabilities mean **trials can be run with fewer clinic visits** and potentially detect safety signals earlier.

- **AiCure – AI-driven Trial Monitoring:** As noted in Table 1, **AiCure** is a platform specifically tailored to clinical trials. Its core is a smartphone app that uses the phone camera and AI to confirm medication ingestion – patients video themselves taking a pill, and AiCure's algorithms verify identity and intake, ensuring high adherence data (Best Remote Patient Monitoring Companies-Optimize Health). While originally an adherence tool, AiCure has expanded to gather other RPM data: it can prompt patients to do symptom surveys, cognitive tests, or even use connected devices like blood pressure cuffs or glucometers, all within a trial setting. Pharma companies use AiCure in trials for conditions like schizophrenia (to monitor that patients take study meds) or hepatitis C (where adherence is key to efficacy). The **data richness** helps sponsors understand drug effects better – for example, correlating dose adherence with health outcomes measured via vitals and patient reports. By improving adherence and insight, AiCure claims it can *accelerate the path to bringing a drug to market*, as fewer participants are lost or misclassified due to non-compliance (Best Remote Patient Monitoring Companies-Optimize Health). This reflects a broader trend: regulators (including the FDA) have encouraged use of "digital biomarkers" and remote data in trials, as outlined in recent FDA guidance for digital health technologies in drug development.

- **Biofourmis – Life Sciences Solutions:** Biofourmis has a division working with life science companies to deploy its RPM platform in clinical studies. Because Biofourmis' wearable provides continuous multi-parameter data, it is valuable in trials for cardiac drugs, oncology treatments, etc., where real-time monitoring of vitals can ensure patient safety. Biofourmis can establish a **virtual safety net** – for instance, in a heart failure drug trial, if a patient's metrics indicate fluid retention, the system can alert the study investigator to intervene or even hospitalize the patient if needed. This potentially enables trials that might have been too risky without continuous monitoring. Moreover, Biofourmis' analytics can be used to discover **digital biomarkers** – novel patterns in sensor data that correlate with drug efficacy or side effects. Pharma companies are interested in such insights to differentiate their products (e.g. proving a drug improves patients' daily activity as measured by steps from a wearable, not just lab values). By partnering with 50+ pharma and provider organizations (Top 10 Best Remote Patient Monitoring (RPM) Companies 2024), Biofourmis has been at the forefront of demonstrating how RPM technologies can be rigorously used in studies and even as companion therapeutics (for example, pairing a chemo drug with a Biofourmis app that monitors and manages symptoms to improve tolerance).

- **Huma** (and similar platforms like Teva's **Oncoverse**, etc.): **Huma** is a UK-based remote monitoring platform that has expanded into the U.S. and worked with organizations like the NHS and multiple pharma firms. Huma's modular app can be configured for different diseases and trials – for instance, a respiratory trial might use Huma to track inhaler usage (via a smart inhaler device), spirometry readings, and patient-reported symptoms daily. Huma's platform has been used in real-world studies (including large population health projects) and emphasizes **flexibility and scalability** for research settings (Huma: Pioneering Remote Patient Monitoring with Digital-First ...). They have also collaborated with medtech companies to help them collect real-world evidence via RPM (e.g. a wearable maker partnering with Huma to validate that its data can predict flu onset). For pharma, an attractive aspect of platforms like Huma is the ability to *deploy globally* and manage data compliance in various regions, as well as to integrate with electronic data capture (EDC) systems used in trials.

- **Medable, Thread, and DCT platforms:** While not pure RPM companies, many providers of **decentralized clinical trial (DCT)** software incorporate RPM. **Medable**, a leading DCT platform, allows integration of connected devices and wearables into its eCOA (electronic clinical outcome assessment) system (Medable Decentralized Clinical Trial Software (DCT and eCOA ...). This means a trial using Medable can ask participants to wear a device (say a continuous ECG patch) and Medable will ingest that data alongside electronic questionnaires. **Thread** and **Science37** are other DCT providers that similarly handle remote data collection. They often partner with the hardware specialists (like providing Garmin watches or Blood Pressure devices to participants) but manage the data pipeline and consent. The result is that trials can be run with **fewer in-person visits**, making participation easier and often more diverse geographically.

Using RPM in trials comes with regulatory considerations: data captured remotely may be used as primary endpoints, so it must meet FDA data integrity standards. Many RPM devices used in trials are FDA-cleared or at least validated for accuracy. Additionally, trial sponsors must ensure patient privacy (HIPAA may apply if the trial involves health providers, and certainly ethical guidelines do). Typically, patients opt-in via informed consent to remote monitoring, understanding what data will be collected.

The **value proposition for pharma** is clear in emerging results – for example, one source notes RPM can **improve adherence and detect safety issues** faster, potentially reducing trial drop-out rates and protocol deviations, which in turn speeds up completion (Best Remote Patient Monitoring Companies-Optimize Health). Furthermore, **real-world patient outcomes** collected via RPM can support stronger submissions to regulators and payers by demonstrating a drug's impact on day-to-day health and quality of life, not just clinic visit measurements. As of 2025, dozens of trials across cardiovascular, oncology, neurology, and other fields have integrated wearables or RPM devices. Notably, in 2021 the FDA approved a heart failure drug (Jardiance) where a key supportive study used **remote pulmonary artery pressure monitoring** (via CardioMEMS) to show reduced pressures in patients – essentially an RPM device was central to proving the drug's mechanism. This hints at a future where **digital therapeutics and medications work hand-in-hand**:

a patient might be prescribed a drug plus a monitoring app/device, and the FDA evaluates both together for efficacy. Many of the RPM vendors described are positioning to be part of that future, partnering with life science firms on companion apps or digital therapy-plus-RPM packages.

Market Size, Outcomes, and Outlook

Remote patient monitoring is now one of the fastest growing segments in healthcare. As mentioned, the **U.S. RPM market** is expected to roughly double over the next 5–6 years, surpassing **$25–30 billion by 2028–2030** (US Remote Patient Monitoring Market worth US$29.13 billion) (U.S. Remote Patient Monitoring Market Size, Share, Trends Outlook). Growth projections generally range from **11% to 20%+ CAGR** depending on what's included (higher estimates include all telehealth and software services). For example, one analysis projected a **128% increase** in RPM market size by 2027 relative to 2022 (27 Remote Patient Monitoring Statistics Every Practice Should Know), and another estimates the global RPM market will reach **$42 billion by 2028** (27 Remote Patient Monitoring Statistics Every Practice Should Know). North America (especially the U.S.) represents the largest share – around 40% of the global RPM market in 2023 (Remote Patient Monitoring System Market Report, 2030) – due to higher chronic disease prevalence and supportive reimbursement. With Medicare's continued coverage and private payers seeing returns (in reduced claims costs from better-managed patients), financial support for RPM is likely to remain strong. Additionally, big retailers entering the space (Best Buy, Amazon's health initiatives, etc.) signal confidence that home-based care technology will be a long-term growth area.

Crucially, **RPM is delivering on its promise of better outcomes and cost savings**, which drives further adoption. A wide range of studies and programs have reported **improved clinical outcomes** with RPM:

- **Reduced Hospitalizations and Readmissions:** Across multiple chronic disease programs, RPM has cut down acute care use. A survey of 25 organizations found hospital admissions for chronic complications dropped **19%–41%** after implementing RPM programs (27 Remote Patient Monitoring Statistics Every Practice Should Know). The University of Pittsburgh Medical Center (UPMC) reported that adding RPM for high-risk patients lowered its 30-day readmission rate by an impressive **76%** (27 Remote Patient Monitoring Statistics Every Practice Should Know). Patients with heart failure monitored daily for weight and symptoms, for example, can get diuretics adjusted quickly to avoid an ER visit. Meta-analyses echo this – a 2024 systematic review in *npj Digital Medicine* found a "clear downward trend" in risk of hospital admission/readmission and length of stay with RPM during care transitions (A systematic review of the impacts of remote patient monitoring (RPM) interventions on safety, adherence, quality-of-life and cost-related outcomes-npj Digital Medicine). Even in acute post-surgical care, an RPM platform trial showed fewer ER visits and shorter hospital stays when patients were monitored at home post-discharge (Remote Patient Monitoring Is Associated with Improved Outcomes in ...).

- **Improved Chronic Disease Control:** RPM has been linked to better control of chronic conditions. In hypertension, for instance, a study showed that patients in an RPM program had significantly improved blood pressure control rates compared to usual care (Remote Patient Monitoring Is Associated with Improved Outcomes in ...). Glucometer data transmitted from home has helped diabetes educators tailor insulin doses more responsively, resulting in better HbA1c levels. Patients with COPD using RPM (with connected inhaler use trackers and pulse oximeters) have shown higher medication adherence and reported fewer exacerbations (Best Remote Patient Monitoring Companies-Optimize Health). The constant feedback loop and accountability of someone "watching" the numbers encourages patients to stay on track. According to an MSI survey, **65–70% of patients** are willing to engage in RPM specifically to monitor metrics like blood pressure and blood sugar, indicating broad patient support for achieving control of their numbers (27 Remote Patient Monitoring Statistics Every Practice Should Know).

- **Patient Satisfaction and Engagement:** Far from feeling intruded upon, many patients appreciate the extra care touchpoints. UPMC's program saw patient satisfaction scores rise above **90%** when RPM was added (27 Remote Patient Monitoring Statistics Every Practice Should Know). Patients feel more in control and empowered – nearly 37% said RPM gave them greater control over their personal health in one survey (27 Remote Patient Monitoring Statistics Every Practice Should Know). Convenience is a major factor (no need to travel for routine checks), and peace of mind is another – knowing that "someone is keeping an eye on me" between appointments. Especially for patients with serious conditions, RPM can reduce anxiety; for example, a cancer patient reporting symptoms from home knows their care team will catch any red flags early. Education provided through RPM apps also increases engagement, as patients learn to manage their condition with real data feedback. The result is often improved medication adherence and lifestyle changes. In diabetes RPM programs, step counts and diet logging increase compared to baseline, reflecting better patient self-management when remote coaches are involved.

- **Cost Savings:** Avoiding hospitalizations and ED visits naturally translates to cost savings for payers and providers. Several programs have documented substantial ROI. One remote cardiac monitoring initiative found each dollar spent on RPM yielded $3+ in savings by preventing admissions. The hospital-at-home model – enabled by RPM – has shown **acute care cost reductions of 20%–30%** while equal or better outcomes are maintained (Hospital at home saves lives and money: CMS report-American Medical Association). The npj Digital Medicine review noted lower non-hospital costs as well with RPM (A systematic review of the impacts of remote patient monitoring (RPM) interventions on safety, adherence, quality-of-life and cost-related outcomes-npj Digital Medicine), which can include keeping people in lower-cost settings (home vs rehab facility). Medicare's introduction of reimbursement was partly motivated by an expectation that better management of chronic disease via RPM will reduce expensive acute episodes. Over time, if RPM can delay disease progression (e.g. keeping a diabetic patient from developing complications through tight monitoring), the long-term cost savings are even greater. Some estimates (McKinsey, etc.) have projected that **$250 billion** in U.S. healthcare spending could potentially shift from traditional facilities to virtual care like RPM (27 Remote Patient Monitoring Statistics Every Practice Should Know) (27 Remote Patient Monitoring Statistics Every Practice Should Know), reflecting massive cost efficiency opportunities.

- **Safety and Quality of Life:** Importantly, RPM can improve patient safety at home. Fall detection devices and emergency response features (often adjuncts to RPM for seniors) can be life-saving. Monitoring also helps catch medication errors or side effects early. Quality of life can improve when patients aren't constantly worrying – for example, COPD patients in one study felt less shortness of breath anxiety knowing their oxygen and lung data were being watched, and their reported quality-of-life scores improved modestly with RPM support. Some outcomes like mental health or general physical function show mixed results in studies (A systematic review of the impacts of remote patient monitoring (RPM) interventions on safety, adherence, quality-of-life and cost-related outcomes-npj Digital Medicine), meaning RPM is not a panacea for all aspects of health. But when combined with good clinical support, RPM generally trends positive for keeping people *healthier, longer at home*. An interesting statistic is that in a survey, **77% of providers** believe that within five years, continuous RPM could replace many traditional clinic visits (PR Newswire: Remote Patient Monitoring Adoption Increased over 300 Percent in Two Years - Alliance for Connected Care) – which suggests confidence that remote care can maintain or improve quality of care delivered.

Looking ahead, the **future of RPM** in the U.S. appears robust. We can expect to see:

- **Wider integration and normalization:** RPM will increasingly be a standard offering for chronic disease management. Just as today a diabetic patient is often given a glucometer, tomorrow they may routinely be enrolled in an RPM program with a cellular glucometer that automatically sends data to their doctor. Annual wellness visits may routinely include enrolling hypertensive or heart disease patients into RPM to catch issues early. As more clinicians get comfortable incorporating remote data into their decisions, it becomes part of routine care.

- **More advanced analytics and personalization:** The vast datasets collected via RPM (big data of daily vitals, activity, sleep, etc.) will fuel machine learning models that can personalize care. We might see predictive models that tell a clinician, "Based on this patient's last 3 months of data, there is an 85% chance they will have a heart failure exacerbation in the next week – consider a proactive medication change." Early versions of this exist, but they will improve with larger training sets and more biomarker inputs (including maybe genomic or environmental data in the mix). This moves healthcare towards a proactive and preventive model instead of reactive.

- **Greater patient self-management tools:** RPM devices will likely converge with consumer wellness tech, giving patients more immediate insights too. For instance, an app might not only send data to the doctor but also give the patient AI-driven coaching each day ("Your weight is up 2 lbs from yesterday; please try reducing salt and take an extra dose of your diuretic as prescribed."). We already see this with programs like Livongo for diabetes that message patients in real time. Such feedback loops can enhance patient behavior between formal provider contacts.

- **Expanded use cases:** Beyond the current focus on chronic disease and post-acute care, RPM could expand to other areas. **Mental health** monitoring is emerging – apps that monitor phone usage patterns or vocal tone to detect depression relapse, paired with periodic vital checks (since mental health meds can affect vitals). **Rehabilitation and physical therapy** is another area, with remote therapeutic monitoring codes now reimbursed. Patients doing PT at home can wear motion sensors or use computer vision through a webcam to ensure exercises are done correctly, and therapists monitor progress remotely. **Maternal health** RPM for high-risk pregnancies (blood pressure for preeclampsia, glucose for gestational diabetes) is gaining attention too, as it can improve outcomes for mother and baby with timely intervention.

- **Interoperability and data aggregation:** As hundreds of devices generate data, efforts are underway (by IEEE, HL7, etc.) to standardize RPM data formats and make it easily exchangeable. The goal is for a patient's entire set of home-generated data to flow with them across providers. The 21st Century Cures Act's information blocking rules already push EHRs to accept patient-generated health data. We might see something akin to a **universal patient health dashboard** that pulls data from Apple Health, hospital EHRs, pharmacy records, and RPM devices all into one view – giving a truly longitudinal, holistic picture.

In conclusion, remote patient monitoring in the U.S. has transitioned from a niche pilot concept to a **mainstream component of healthcare delivery**. It is enabling a shift toward continuous, data-driven care that transcends physical clinic walls. RPM is **empowering patients**, who feel more supported and connected, and **assisting clinicians** in delivering better care with early interventions. Government and payer policies have recognized its value by fostering supportive reimbursement and flexibility for innovative care models. While challenges remain (device costs, ensuring equity in access to technology, avoiding data overload for providers), the trajectory indicates these are being addressed through better tech and smarter workflows. The major RPM providers profiled – spanning devices, platforms, and full-service offerings – are continually evolving, and many are collaborating (e.g. device makers partnering with platform providers) to provide seamless solutions.

Remote monitoring is also a cornerstone of **pharma's digital future**, as drug trials become more patient-centric and real-world outcome focused. Ultimately, RPM is a win-win-win: patients get healthier with less hassle, providers can extend care in efficient ways and potentially increase revenue for care coordination, and the healthcare system saves costs by keeping people out of the hospital whenever safe and possible. As one bipartisan policy report aptly stated, *"Remote patient monitoring has the potential to improve health and reduce costs, but thoughtful policy is essential to unlock its full value"* (Maximizing the Value of Remote Patient Monitoring). With the momentum seen through 2025, the U.S. healthcare system appears poised to continue unlocking that value, integrating RPM as a standard of care and leveraging technology to achieve the long-sought goal of **better outcomes at lower cost**.

Sources: Government and industry reports, peer-reviewed studies, and company publications have been cited throughout this report for factual support and are denoted in the text by bracketed numerals (e.g. (PR Newswire: Remote Patient Monitoring Adoption Increased over 300 Percent in Two Years - Alliance for Connected Care)). These include CMS and FDA communications, research in journals like *npj Digital Medicine*, market analysis from firms like MarketsandMarkets, and examples from company case studies. Each citation corresponds to an entry in the reference list accompanying this report.

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