



# Provider User-Experience Challenge

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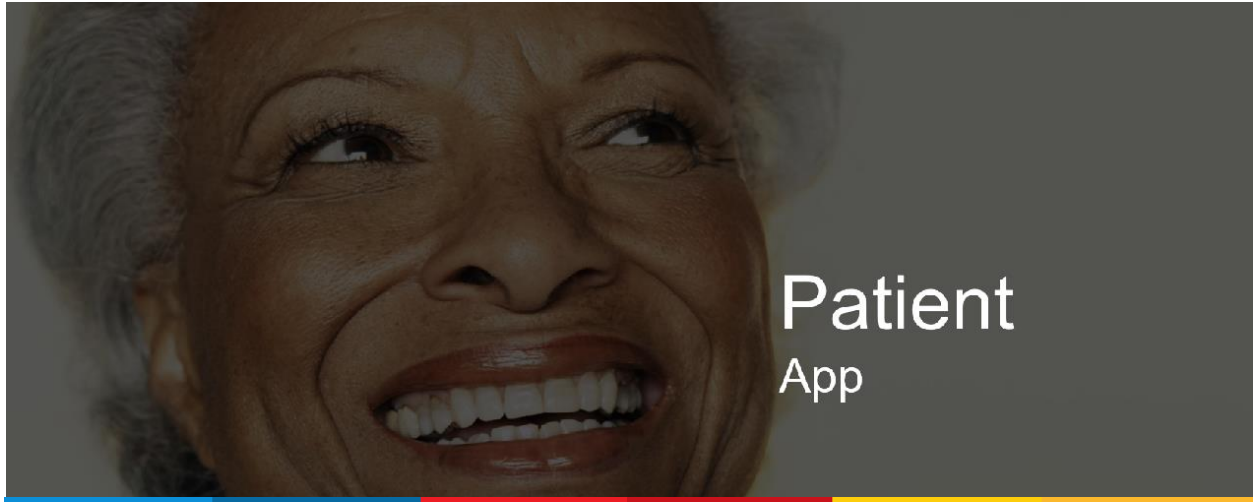
PHR PLUS

2016

[www.PHRplus.com](http://www.PHRplus.com)

## [Index](#)

Screenshots: PHR Plus Patient App	Pages 2-3
Screenshots: PHR Plus Care Manager Portal	Pages 4-5
Screenshots: PHR Plus Medical Provider Portal	Pages 6-7
Issue Analysis	Page 8
Solution Description	Pages 9-10
Financial Estimates	Pages 11-12
Engagement Plan	Pages 13-14
Provider Partnerships	Page 14
Current Integration List	Pages 16-19
Integration Pipeline	Page 19
References	Pages 20-21



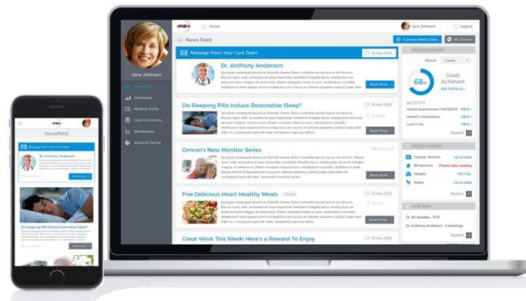
## Complete Medical Profile



## Personalized Health & Wellness



## Patient Engagement



Insights and recommendations based on the patient's medical conditions, device data, and wellness goals.

## PHR Plus Mobile Apps



Available on iOS & Android

## PHR Plus Mobile Apps



Available on iOS & Android



## Patient Data Overview



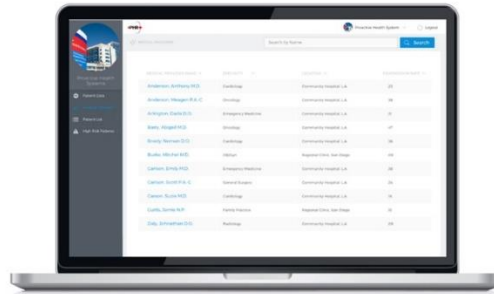
Care Manager can view high level trends in their patient's data.

## Condition Data Overview



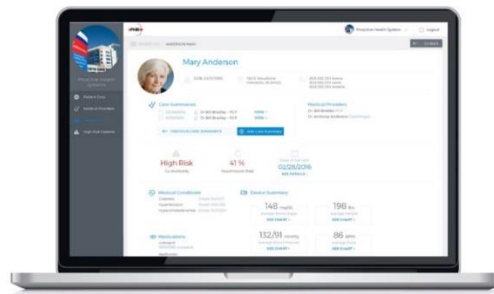
Care Manager can view high level trends for a specific medical condition.

## Medical Provider List



Care Manager can view list of Medical Providers & readmission rates.

## Patient Overview

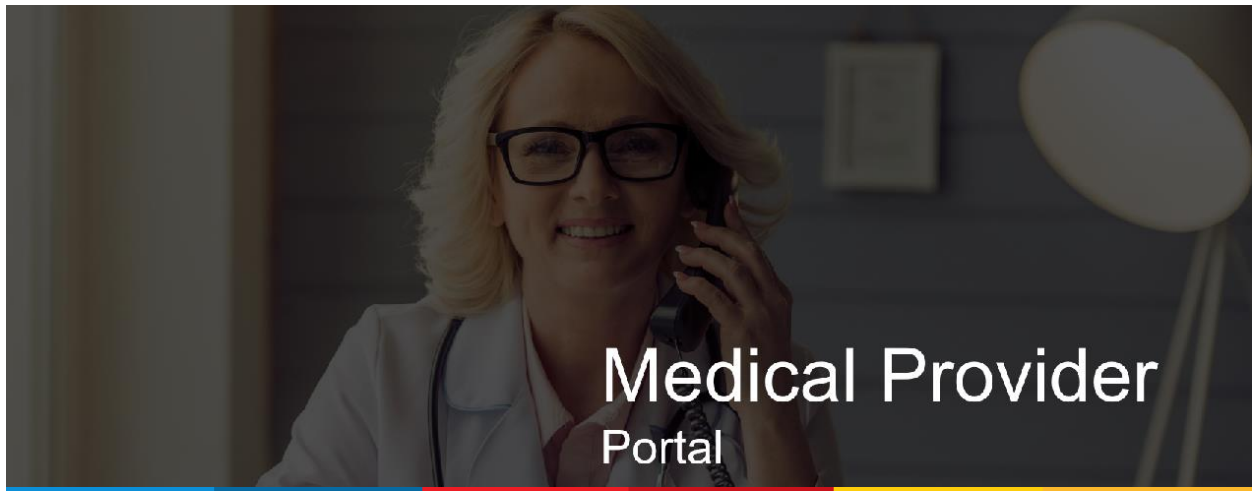


Care Manager see specific data for a Patient and get alerts about specific metrics.

## Medical Provider Data



Care Manager see specific metrics for a Medical Provider's patient data.



## Patient Data Overview



Medical Provider can view high level trends in their patient's data.

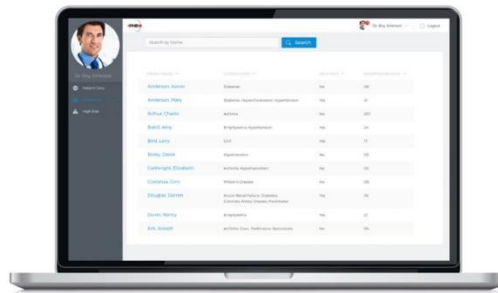
## Condition Data Overview



Medical Provider can view high level trends for a specific medical condition.

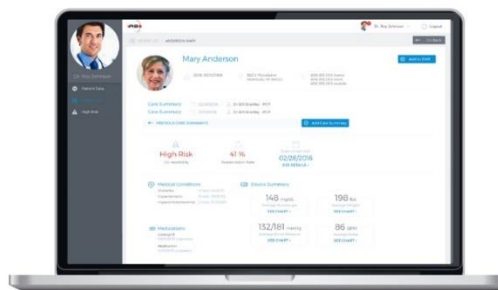


## Patient List



Medical Provider can view list of patients, filter high risk, & readmission rates.

## Patient Overview



Medical Provider can see specific data for a Patient and get alerts about specific metrics.

## Secure Messaging



Medical Provider & Care Manager can send messages to patient's PHR Plus account.



## Issue Analysis

It is a great time in technology and in healthcare, but there is still much room for improvement for digital health information exchanges. The HITECH Act and Meaningful Use Measures have created an environment that should allow for interoperable data transfers, over 80% of health systems have adopted electronic health records. Today, more than 480,000 providers have earned over \$31 billion in Meaningful Use reimbursements [1]. However, 67% of providers are dissatisfied with their record system citing lack of interoperability as a major source of frustration [2]. A report in Health Affairs values a fully interoperable health system to be worth \$78 billion [3]. The Centers for Medicare and Medicaid Services as well as the Office of the National Coordinator for Health Information Technology have emphasized that this also includes integrating provider-generated and patient-generated health information. Achieving interoperability requires connecting a very fragmented health record market. There are over 1,100 vendors where the largest vendor has 11.6% of the market [4].

Our nation has spent an exorbitant amount of money on state health information exchanges. These efforts have not been very effective because states have different laws and regulations making it difficult to share health information across state lines. In fact, only 51% of hospitals can search for critical health information from outside sources [5]. Many health systems still rely heavily on phones and fax machines to request and transmit PHI to one another.

A lack of interoperability means that there is a huge deficit in care coordination, the typical Medicare beneficiary sees seven providers annually. More than half of seniors (54%) have multiple doctors prescribing medications and one-third (35%) use multiple pharmacies [6]. The FDA reports that the cost of drug-related morbidity and mortality is \$136 billion annually, more than the cost of cardiovascular or diabetic care in the US [7]. A critical tool in combating adverse drug events is a complete medication list for every patient.

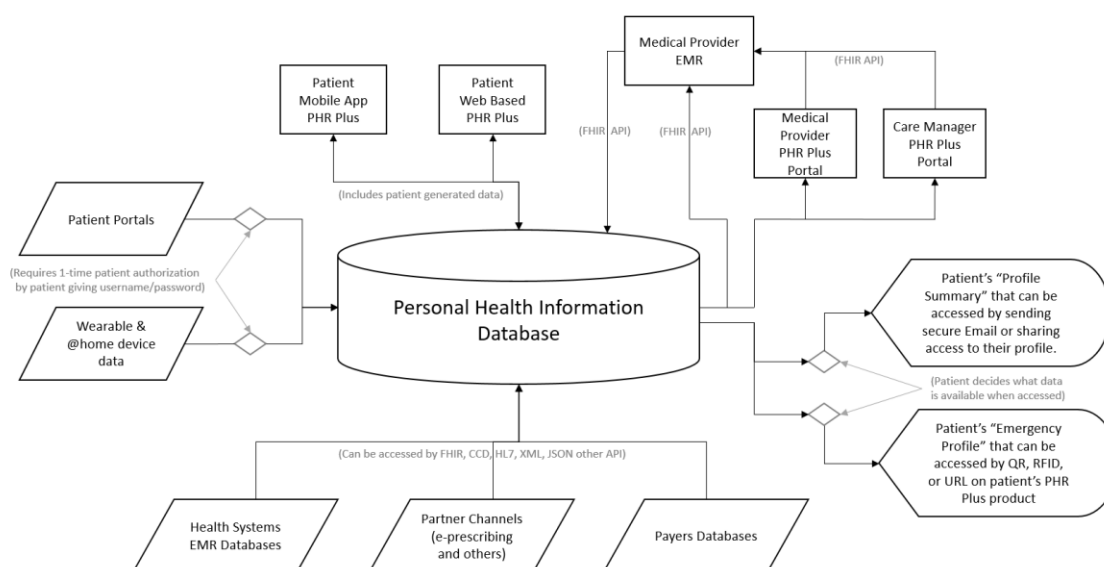
About half of Americans have electronic access to their health data, but Rock Health reports even more (87%) are interested in accessing their records [8]. Patients have access to their digitally available health data through the use of patient portals. But patients have no automated process to aggregate this data from multiple portals, along with their patient generated data, and to share this information with a new healthcare provider [9]. Rock Health found that 80% of Americans are willing to share their health information for improved care. More (89%) are willing to share with physicians [9].

There are numerous consequences to the lack of interoperability. When medical providers don't have access to accurate information it leads to medical errors. As the third leading cause of death in the United States, medical errors result in \$17 billion direct medical costs annually or an average of \$11,000 per error [10]. The most common medical error is an adverse drug event; accurate medication lists are particularly important for hospital admission. University of Toronto's hospital found that 54% of admissions had at least one error [11]. The most common type of error was omission of a regular medication and 39% of the errors had potential to cause serious discomfort or harm. Interoperable solutions save time and money by reducing redundant tests and reducing medical errors. A report in Health Affairs estimates the increased connectivity results in a \$22 billion savings for payers [12]. Every medical error prevented is a savings of \$11,000 [10]. Interoperable solutions also have the potential to save patient's lives. "Patients don't just die of heart plaques, and bacteria, they can also die from communication breakdowns and medication errors. System level problems are almost ubiquitous in healthcare." Dr. Martin Makary [13].

## Solution Description

Our mission at PHR Plus is to reduce medical errors and save lives. We do this by empowering individuals with an accurate, portable, and shareable personal health record. We provide patients with accurate information, allow them to share their data, and engage them in their specific conditions.

The first and very important part of our solution is ensuring accuracy of information. We allow each user to sync their patient portals to one PHR Plus account. Our platform already has the ability to sync data from over 60% of the patient portals, by the end of 2017 this will be over 80%. A patient can sync the data from multiple health systems into one PHR Plus account. PHR Plus already has the ability to sync the patient's data from wearables like Fitbit, at home medical devices, smart body weight scales, and fitness apps. The PHR Plus account is the only place a patient has to go to access their health and medical data, it provides a holistic view of their overall health. PHR Plus further perfects this data because we are forming a partnership with the nation's largest e-prescribing clearinghouse, this provides an accurate medication summary for the patient. We will continue to form partnerships with health systems, payers, and other stakeholders to empower patients with their data using FHIR and other standard API formats.



When patients register for PHR Plus they enter in demographic information and any of their medical information. The patient uses PHR Plus Connect to sync their patient portals and devices by simply entering the usernames and passwords for each account. From then on the patient portal data will be transferred automatically. We will then ask for authorization to import data on the patients' behalf from our partner channels. We use standard matching algorithms to match patients from our database to our partner channels, once matched we can import data into their PHR Plus account.

The ability to aggregate data from multiple sources such as patient portals, EMR databases, payers' databases, partner channels, wearables, at home medical devices, and patient generated data means that the PHR Plus platform is the most accurate personal health database. The accuracy of this

information, and ability to share health information in emergency and non-emergent situations is a lifesaving, cost-reducing proposition and will disrupt how personal health information is transferred.

PHR Plus is a portable personal health record using mobile apps and our PHR Plus products. Each PHR Plus product; PHR Plus Smart Card, Key Card, and Bracelet allows patients to keep an Emergency Profile accessible. Patients keep an Emergency Profile: medical alerts, medications, allergies, conditions, and emergency contacts accessible for medical providers. This information is accessed when the QR code or RFID are scanned on their products. Each product also contains a unique URL with pin number that when entered into a browser displays the patients' Emergency Profile. The patient is in control of what information is accessed when their Emergency Profile is viewed. From the website or smartphone app, the patient can select sensitive data to not be displayed.



Using the PHR Plus website and/or mobile application, a patient can view, edit, or share their medical information from anywhere. A patient can login and share their information using our HIPAA compliant email, print feature, or sharing access to their profile. Medical providers will no longer need to run unnecessary tests or make assumptions because they don't know a patient's accurate medical history. With PHR Plus they are equipped with the most accurate personal health data at the point of care. When surveyed 83% of emergency room physicians want patients to have a portable health record on them at all times [14].

At PHR Plus we know that patients with complex medical history are typically the elderly. That's why we've created the system to allow administrator access to an account. A registered user may allow a family member, caretaker, nurse, or legal guardian to be in charge of their profile. The registered patient can also grant specific permissions. For example, a patient may allow their nurse to view a partial profile, but allow their daughter complete admin access to their entire profile- to add, edit, or share data. We also have a Medical Provider Portal, where authorized medical personnel will be able to see their patient's data from at home devices. The providers will be updated if a patient's data is out of range, can flag high risk patients, and send messages or instructions to a patient's PHR Plus account.

PHR Plus takes security, compliance, and data protection very seriously. All data within PHR Plus is encrypted, password protected, and the end-user is in control of whom has access to their information. Our solution is HIPAA compliant and we have chosen to work with a partner that has developed HIPAA compliant HITRUST Certified hosting. This means that we can focus on providing value for our customers while ensuring; all PHI and other data is encrypted at rest and in motion, intrusion detection, OS hardening and patching, anti-virus management, VPN & Firewall configuration and backup, and the most stringent physical safeguards are in place. With our HIPAA attorney we have adopted HIPAA Privacy Policies for our employees, we have a BAA, Privacy Policy, and Terms of Use in place. PHR Plus is scheduling our first HIPAA Security and Risk Assessment for the summer of 2016. By that same time we will also have a HIPAA Security and Compliance Dashboard to show continuous security and compliance monitoring for our enterprise customers. This dashboard will give them high-level overview of compliance trends, and allow them to see detailed information about their accounts with PHR Plus.

### Financial Estimates:

Patients and doctors are frustrated that they don't have access to accurate comprehensive medical information. The lack of accurate information at the point of care leads to unnecessary tests, mistakes are made, and lives are lost as a result. PricewaterhouseCoopers identified as much as \$1.2 trillion in wasteful healthcare spending, or 55% of total US healthcare spending, and attributed a large portion to medical errors [15]. As the third leading cause of death in the United States, medical errors result in \$17 billion direct medical costs annually or \$11,000 per error [10]. A NIH-funded study finds the average cost for an ER visit was over \$2,000 [16].

With this information in mind we have decided to market our product to insurance providers and self-insured employers. Health insurance providers have a financial incentive to reduce medical errors and help their members engage in their health conditions. A payer that covers 50,000 lives has an annual exposure of \$7 million due to medical errors.

<b>Covered Lives</b>	<b>50,000</b>
Affected by Errors	1.23%
Lives Affected	615
Cost per Error	\$11,000
<b>Total Exposure</b>	<b>\$6,765,000</b>

A secondary market that we pursue is allowing medical providers to remotely monitor their patients by licensing the PHR Plus Medical Provider Portal. The patient data in the PHR Plus platform is extremely valuable for monitoring patients with chronic conditions and co-morbidities. Through the PHR Plus Medical Provider Portal- doctors, nurses, care managers, and the care team can have a comprehensive medical profile, accurate medication summary, and patient generated data from at home devices for their patients. Our platform will allow them to see high level data based on specific conditions, and they can filter this data all of the way to the patient level. Providers will get alerts if a patient's data is out of an acceptable range, they can flag high risk patients, monitor readmission rates, and send messages or instructions to the patient's PHR Plus profile. Doctors can import this data into their EMR by the click of a button when they utilize our FHIR compliant API. Remote monitoring and engagement has been proven to reduce readmission rates, increased revenue by billing for chronic care management, decrease emergency department utilization, improved outcomes, and improved patient satisfaction. The Northern Arizona Healthcare system has an ongoing initiative that utilizes a remote-home monitoring project that captures patient-generated data on blood pressure readings, oxygen levels, and weight. By monitoring and engaging with patients in between office visits, readmission rates decreased by 44% and average number of days hospitalized decreased by 64% [17]. Interoperability is needed not only between health record systems but also with the increasing amount of patient-generated health data, PHR Plus offers this solution with the PHR Plus Medical Provider Portal.

Our business model connects patients to all of their health data, and allows them to connect with anyone in their care team. We focus our sales and marketing efforts to insurance providers, medical providers, and direct to consumer through online channels.

Financial Projections		2016	2017	2018	2019
<b>Sales</b>					
Insurance Companies (Enterprise)	Firms	2	6	8	8
	Users	100,000	300,000	400,000	400,000
Self-Insured Employers (Enterprise)	Firms	1	6	10	10
	Users	2,930	36,625	55,670	58,600
Health Systems (Enterprise)	Firms	2	5	6	6
	Users	1,000	2,500	3,000	3,000
Individuals (Consumer)	Users	7,242	255,670	909,493	1,153,457
Total Users (Added)	Users	111,172	594,795	1,368,163	1,529,055
PHR Plus Premium (Added)	Users	3,543	138,917	327,373	388,364
PHR Plus Basic (Added)	Users	102,201	430,988	949,460	1,033,626
Basic Upgraded to Prem.	Users	5,554	40,126	92,988	112,527
Attrition			21,238	177,442	446,130
Total Users (Cumulative)	Users	111,172	684,729	1,875,449	2,958,374
Total Basic Users (Cumulative)	Users	102,201	265,989	1,215,449	2,249,075
Total Premium Users (Cumulative)	Users	9,097	520,421	525,116	1,026,008
PHR Provider Portal (Added)	Med. Provide	100	250	300	300
Total Providers (Cumulative)	Med. Provide	100	350	650	950
PHR Plus Smart Card (Enterprise)	Units	103,726	383,480	656,708	719,164
PHR Plus Key Card (Enterprise)	Units	17,743	118,699	302,041	363,764
PHR Plus Smart Card (Consumer)	Units	1,811	63,917	227,373	288,364
PHR Plus Key Card (Consumer)	Units	1,811	63,917	227,373	288,364
<b>Revenue</b>					
<b>One-time:</b>					
PHR Plus Smart Card		\$ 535,677.14	\$ 2,552,100.44	\$ 5,548,431.70	\$ 6,469,387.02
PHR Plus Key Card		\$ 83,627.40	\$ 921,577.90	\$ 2,797,501.11	\$ 3,470,722.05
Wellness Codes Revenue		\$ 4,546.19	\$ 62,450.56	\$ 476,303.82	\$ 1,130,820.06
Total One-Time Revenue		\$ 619,304.54	\$ 3,473,678.34	\$ 8,345,932.81	\$ 9,940,109.07
<b>Recurring Revenue</b>					
PHR Plus Premium Subscriptions		\$ 94,712.35	\$ 1,301,053.26	\$ 9,922,996.24	\$ 23,558,751.27
PHR Plus Provider Subscriptions		\$ 45,000.00	\$ 243,000.00	\$ 567,000.00	\$ 891,000.00
Total Recurring Revenue		\$ 139,712.35	\$ 1,544,053.26	\$ 10,489,996.24	\$ 24,449,751.27
<b>Total Revenue</b>		<b>\$ 759,016.89</b>	<b>\$ 5,017,731.60</b>	<b>\$ 18,835,929.05</b>	<b>\$ 34,389,860.35</b>
<b>Expenses</b>					
<b>COGS</b>					
PHR Plus Smart Card		\$ 199,606.52	\$ 1,309,625.37	\$ 3,420,697.23	\$ 4,139,295.17
PHR Plus Key Card		\$ 41,044.20	\$ 636,700.99	\$ 2,072,603.51	\$ 2,597,688.08
Smart Card Printer & Software		\$ 4,500.00	\$ -	\$ -	\$ -
Hardware R&D		\$ 6,000.00	\$ 8,000.00	\$ 24,055.00	\$ 24,198.00
Commissions		\$ 40,199.12	\$ 118,274.51	\$ 160,403.10	\$ 161,017.52
Contracted Software Development		\$ 60,000.00	\$ -	\$ -	\$ -
Hubspot Marketing Software		\$ 630.00	\$ 4,800.00	\$ 9,600.00	\$ 9,600.00
Hubspot Marketing Consulting		\$ 10,770.00	\$ 21,540.00	\$ -	\$ -
Intercom CRM		\$ 3,600.00	\$ 7,200.00	\$ 7,200.00	\$ 7,200.00
Website & Hosting		\$ 1,820.00	\$ 3,120.00	\$ 3,120.00	\$ 3,120.00
HIPAA Compliant Hosting		\$ 21,000.00	\$ 60,000.00	\$ 70,500.00	\$ 78,000.00
Validic Data Licensing		\$ 31,700.00	\$ 96,000.00	\$ 96,000.00	\$ 96,000.00
HumanAPI Data Licensing		\$ 19,000.00	\$ 60,000.00	\$ 60,000.00	\$ 60,000.00
Salaries, Wages, & Employee Benefits		\$ 232,400.00	\$ 1,682,627.03	\$ 1,938,443.19	\$ 2,092,275.94
Office Furniture & Equipment		\$ 67,500.00	\$ 28,095.78	\$ 72,209.33	\$ 7,100.97
Office Lease		\$ 35,000.00	\$ 96,000.00	\$ 96,000.00	\$ 96,000.00
Marketing & Tradeshows		\$ 15,000.00	\$ 120,000.00	\$ 120,000.00	\$ 120,000.00
Legal Services		\$ 17,000.00	\$ 31,000.00	\$ 13,000.00	\$ 12,000.00
Accounting Services		\$ 5,250.00	\$ 9,000.00	\$ 9,000.00	\$ 9,000.00
Online Advertising		\$ 37,230.00	\$ 1,278,349.22	\$ 4,547,463.35	\$ 5,552,279.93
<b>Total Expenses</b>		<b>\$ 849,249.84</b>	<b>\$ 5,570,332.89</b>	<b>\$ 12,720,294.71</b>	<b>\$ 15,064,775.60</b>
<b>Profit</b>		<b>\$ (90,232.95)</b>	<b>\$ (552,601.30)</b>	<b>\$ 6,115,634.34</b>	<b>\$ 19,325,084.75</b>



## Engagement Plan

The PHR Plus platform incorporates valuable articles, nutrition recommendations, exercise recommendations, and lifestyle suggestions based on the users' specific conditions, wellness goals, and device data. Our patient engagement strategy is based on the scientific research of Nir Eyal and the Hooked Model. We are incorporating the same habit forming methods that have been successful for Facebook, Twitter, Pinterest, and other tech platforms. We are doing this to empower and help engage the patient in their medical conditions, and so they can make healthy improvements in their lives. Our strategy relies on three phases; Engage, Improve or Invest, and Reward.

The first phase is the Engage phase. In the Engage phase we are engaging with a patient or they are engaging with PHR Plus. Medical providers and members of the patients care team can send messages or instructions to a patient to improve engagement. The next mechanism in our Engage phase is the rich content that we provide patients, this is hyper-targeted for their conditions and preferences. We also use a Customer Relationship Management (CRM) system to push notifications and get the patient to login and fulfill a certain action; such as linking PHR Plus to their patient portal, medical device, set a goal, or complete a section of their profile. We will use Engage to drive the patient to our Marketplace where they can buy a medical or fitness device for 20-40% off of retail. Another aspect of the Engage phase are the Wellness Challenges. These Wellness Challenges are device agnostic, and they vary from weight loss challenges, activity challenges, to lower blood pressure, or to manage blood sugar. Each challenge is offered to patients based on their conditions, available devices, and their wellness goals.

The second phase in our engagement strategy is Improve or Invest. This part of the engagement strategy requires action. The patient will either; improve their profile, improve their wellness, invest time researching healthy recommendations, or invest money to improve their health. Studies have proven that patients who received enhanced decision-making support ultimately had overall medical costs that were 5.3 percent lower than for those receiving only the usual support. They also had 12.5 percent fewer hospital admissions [18].

The third and final phase of our engagement strategy is the Reward phase. Our platform offers variable rewards to enhance the patient's experience with PHR Plus. Variability in rewards stimulates the patient's nucleus accumbens and increases engagement [19]. When a patient completes an action such as; connecting data from their patient portal, connecting data from their device, completing their profile, or achieving a Wellness Challenge they will get a reward. These rewards vary from discounts at healthy grocers, discounts on fitness apparel, badges to share on social media, and a library of rich content in their PHR Plus News Feed. Most discounts and coupons are powered by Kiip Rewards; some are offered through the PHR Plus Marketplace. Zipongo, a digital nutrition platform that uses health data to engage users, has improved eating habits in 76% of users [20]. In 46% of users, blood pressure levels have lowered to ideal levels. Wellcoin created a digital health currency based on healthy habits, including sleep, eating, and fitness. Today, Wellcoin has reach 10,000 users organically with nearly 1,000 users generating health data daily. Zipongo and Wellcoin are just two examples of how patient-generated health data can be used to engage patients in their health. By capturing information beyond a medical record, PHR Plus is positioned to empower and engage users in their healthcare through easy to use software and incentives.

PHR Plus provides value to insurance providers, patients, and health systems. Health insurance providers will reduce costs due to medical errors and unnecessary testing by equipping their members with an accurate, portable, shareable personal health record. This increased connectivity results in a \$22 billion savings for payers [21]. Every medical error prevented is a savings of \$11,000 [10]. For less than \$10 per member health insurance companies have the potential to reduce their exposure to medical errors by millions of dollars. Patients are empowered with a lifesaving solution, they feel of sense of control, and improve their overall health and wellness by using PHR Plus. And Health Systems have the ability to remotely monitor their patients' chronic conditions and patient generated health data. By monitoring and engaging with patients in between office visits, Northern Arizona Health reduced readmission rates by 44% and average number of days hospitalized decreased by 64% [17]. Interoperability is needed not only between health record systems but also with the increasing amount of patient-generated health data. PHR Plus offers this solution with the PHR Plus Medical Provider Portal, and allows for patient generated health data to be uploaded to the medical provider's EMR using FHIR API access.

Our PHR Plus Medical Provider Portal allows health systems to improve outcomes for patients. Health systems will reduce CMS deductions. The PHR Plus Medical Provider Portal allows health systems to bill for CCM 99490 at \$42/PM/PM. Health Systems may also opt for PHR Plus to act on their behalf for the care management and care coordination aspect. When they opt for this service we will work closely with the Health System to map out their specific requirements in managing their patient population. This solution also improves patient satisfaction. Providers who adopt and improve electronic health information sharing are more attractive to patients, with 40 percent of respondents saying technology makes them more likely to recommend their doctor to others and 36 percent saying they would be less likely to switch to a new doctor [22].

When thinking of a comprehensive approach to improve interoperability in healthcare, aggregate data, and provide value to the healthcare system it's important to align all stakeholders. In health information the main stakeholders are the patient, medical provider, and health insurance payer. Our solution at PHR Plus has been developed to align the interests of these three stakeholders, providing exceptional value to each segment. PHR Plus reduces medical errors, saves lives, connects patients and medical providers, and engages patients in their specific medical conditions.

### Provider Partnerships

Our platform is designed so that we can integrate with various EMR vendors, and we currently access data from over 60% of the available patient portals. We currently access data from almost every connected home health and medical device, many are FDA approved devices, and many other consumer fitness devices and apps. We have received API Developer access to Athenahealth EHR, and our proposed pilot programs will allow us to also integrate with EPIC and Cerner.

We are in discussions with Dignity Health, Honor Health, and Blue Cross Blue Shield of Arizona for pilot programs. With the short deadline were not able to able to secure a letter of intent with any of these parties. Dr. Matthew Anderson of Honor Health is our advocate with both Honor Health and Dignity Health to ensure our pilot programs launch and are successful.



## Devices and Apps with Current Integration with PHR Plus

Name	FDA Approved?	Category (Data Type)
Addidas Fit Smart	No	Mobile App (Fitness)
Addidas Train & Run Mobile App	No	Mobile App (Fitness)
Adidas MiCoach Heart Rate Monitor	No	Mobile App (Fitness)
Adidas MiCoach Smart Run Watch	No	Mobile App (Fitness)
Adidas MiCoach Speed Cell	No	Mobile App (Fitness)
Adidas MiCoach X-Cell	No	Mobile App (Fitness)
Arkay Glucocard®01**	Yes	Glucometer (Diabetes)
AsthmaMD	Yes	Mobile App (Biometrics)
Bayer® Breeze2**	Yes	Glucometer (Diabetes)
Bayer® CONTOUR**	Yes	Glucometer (Diabetes)
Bayer Contour® NEXT EZ**	Yes	Glucometer (Diabetes)
BeWell Connect MyCoach	No	Activity Tracker (Routine, Sleep)
BeWell Connect MyScale Analyzer	No	Body Scale (Weight)
BeWell Connect MyScale XL	No	Body Scale (Weight)
BeWell Connect MyTensio Upper Arm	Yes	Blood Pressure Monitor (Biometrics)
BeWell Connect MyThermo	Yes	Thermometer (Biometrics)
BeWell Connect MyOxy	Yes	SpO2 Sensor (Biometrics)
BodyTrace Blood Pressure Cuff	No	Blood Pressure Monitor (Biometrics)
BodyTrace Weight Scale	No	Body Scale (Weight)
CareTRx	Yes	Activity Tracker (Routine)
CVS TRUEresult**	Yes	Glucometer (Diabetes)
CVS TRUEtrack**	Yes	Glucometer (Diabetes)
Dailymile	No	Mobile App (Fitness)
Epson Pulsense PS-100 Band	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Epson Pulsense PS-500 Watch	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fat Secret (Calorie Counter)	No	Mobile App (Fitness, Weight)
Fifty50 Glucose Meter 2.0**	Yes	Glucometer (Diabetes)
Fifty50 Glucose Meter 2.0 Sport**	Yes	Glucometer (Diabetes)
Fitbit App	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbit Aria Scale	No	Body Scale (Weight)
Fitbit Charge	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbit Charge HR	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbit Flex Tracker	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbit Force	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbit One Tracker	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbit Surge	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbit Ultra	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbit Zip Tracker	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbug Air Tracker	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbug Go Tracker	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbug Orb Tracker	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitbug WoW Wireless Scale	No	Body Scale (Weight)
Fitlinxx Actiped	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitlinxx Pebble	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitlinxx Pebble+	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Fitlinxx Blood Pressure Monitor	No	Blood Pressure Monitor (Biometrics)
Fitlinxx Scale	No	Body Scale (Weight)
Freestyle® FreedomLite**	Yes	Glucometer (Diabetes)
Freestyle® Lite**	Yes	Glucometer (Diabetes)
Garmin Connect App	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Edge 200	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Edge 205	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Edge 305	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Edge 510/500	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Edge 605	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Edge 705	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Edge 810/800	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Edge 1000	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Edge Touring/Plus	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Fenix/2	No	Activity Tracker (Routine, Fitness, Sleep)

Garmin Forerunner 10	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 15	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 50	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 101	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 110	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 201	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 205	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 210	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 220	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 301	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 305	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 310XT	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 405/405CX	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 410	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 610	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 620	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Forerunner 910XT	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin FR60	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin FR70	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Swim	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Tactix	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin VivoActive	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Vivofit	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Vivofit 2	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin Vivoki	No	Activity Tracker (Routine, Fitness, Sleep)
Garmin VivoSmart	No	Activity Tracker (Routine, Fitness, Sleep)
Higi Station	No	Mobile App (Weight, Biometrics)
iHealth Align Glucometer	Yes	Glucometer (Diabetes)
iHealth Blood Pressure Dock	No	Blood Pressure Monitor (Biometrics)
iHealth Wireless Activity and Sleep Tracker	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep)
iHealth Wireless Blood Pressure Monitor	Yes	Blood Pressure Monitor (Biometrics)
iHealth Wireless Blood Pressure Wrist Monitor	Yes	Blood Pressure Monitor (Biometrics)
iHealth Wireless Body Analysis Scale	Yes	Body Scale (Weight)
iHealth Wireless Gluco-Monitoring System	Yes	Glucometer (Diabetes)
iHealth Wireless Pulse Oximeter	Yes	SpO2 Sensor (Biometrics)
iHealth Wireless Scale	No	Body Scale (Weight)
InRFood InRTracker App	No	Mobile App (Nutrition)
i-SENS CareSens N**	Yes	Glucometer (Diabetes)
i-SENS CareSens NPOP**	Yes	Glucometer (Diabetes)
Jawbone UP	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Jawbone UP2	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Jawbone UP3	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Jawbone UP4	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Jawbone UP App	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Jawbone UP Move	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
Jawbone UP24	No	Activity Tracker (Routine, Fitness, Nutrition, Sleep, Weight)
LifeScan® OneTouch® Ultra®2**	Yes	Glucometer (Diabetes)
LifeScan® OneTouch® UltraMini®***	Yes	Glucometer (Diabetes)
LifeScan® OneTouch® Profile®***	Yes	Glucometer (Diabetes)
LFconnect App	No	Mobile App (Fitness)
Life Fitness Elevation Discover SE and SI Treadmill	No	Mobile App (Fitness)
Life Fitness Elevation Discover SE and SI Cross-Trainer	No	Mobile App (Fitness)
Life Fitness Elevation Discover SE and SI Upright Bike	No	Mobile App (Fitness)
Life Fitness Elevation Discover SE and SI Recumbent Bike	No	Mobile App (Fitness)
Life Fitness Elevation Discover SE and SI FlexStrider	No	Mobile App (Fitness)
Life Fitness Elevation Discover SE and SI PowerMill	No	Mobile App (Fitness)
Life Fitness Platinum Club Discover SE and SI Treadmill	No	Mobile App (Fitness)
Life Fitness Platinum Club Discover SE and SI Cross-Trainer	No	Mobile App (Fitness)
Life Fitness Platinum Club Discover SE and SI Upright Bike	No	Mobile App (Fitness)
Life Fitness Platinum Club Discover SE and Recumbent Bike	No	Mobile App (Fitness)
Life Fitness Track+ Treadmills	No	Mobile App (Fitness)
Life Fitness Track+ Cross-Trainers	No	Mobile App (Fitness)
Life Fitness Track+ Upright Bikes	No	Mobile App (Fitness)
Life Fitness Track+ Recumbent Bikes	No	Mobile App (Fitness)

Lumo Back	No	Activity Tracker (Routine)
Lumo Lift	No	Activity Tracker (Routine)
MapMyFitness	No	Mobile App (Fitness)
MapMyHike	No	Mobile App (Fitness)
MapMyRide	No	Mobile App (Fitness)
MapMyRun	No	Mobile App (Fitness)
MapMyWalk	No	Mobile App (Fitness)
Medisana CardioDock	No	Blood Pressure Monitor (Biometrics)
Medisana GlucoDock	No	Glucometer (Diabetes)
Medisana TargetScale	No	Body Scale (Weight)
Medisana ViFit Activity Tracker	No	Activity Tracker (Routine, Fitness, Sleep)
Medisana VitaDock	No	Mobile App (Routine, Weight, Biometrics)
Microsoft Band	No	Activity Tracker (Routine, Fitness, Sleep)
Misfit Flash	No	Activity Tracker (Routine, Fitness, Sleep)
Misfit Shine	No	Activity Tracker (Routine, Fitness, Sleep)
Movable MOVband	No	Activity Tracker (Routine, Fitness, Sleep)
Moves App	No	Activity Tracker (Routine, Fitness, Sleep)
MyFitnessPal	No	Mobile App (Fitness, Nutrition, Weight)
<b>Nipro TRUEbalance**</b>	<b>Yes</b>	<b>Glucometer (Diabetes)</b>
<b>Nipro TRUEresult**</b>	<b>Yes</b>	<b>Glucometer (Diabetes)</b>
<b>Nipro TRUEtrack**</b>	<b>Yes</b>	<b>Glucometer (Diabetes)</b>
Omron Fitness Activity Monitor	No	Activity Tracker (Routine)
Omron Fitness USB Pedometer	No	Activity Tracker (Routine)
Omron Fitness USB Pedometer	No	Activity Tracker (Routine)
Pivotal Living Activity + Sleep Wristband	No	Activity Tracker (Routine, Nutrition, Sleep, Weight)
PredictBGL Diabetes Manager	No	Mobile App (Diabetes)
Qardio Blood Pressure Cuff	No	Blood Pressure Monitor (Biometrics)
<b>ReliOn® Confirm**</b>	<b>Yes</b>	<b>Glucometer (Diabetes)</b>
<b>ReliOn® Prime**</b>	<b>Yes</b>	<b>Glucometer (Diabetes)</b>
<b>RiteAid TRUEresult**</b>	<b>Yes</b>	<b>Glucometer (Diabetes)</b>
<b>RiteAid TRUEtrack**</b>	<b>Yes</b>	<b>Glucometer (Diabetes)</b>
RunKeeper	No	Mobile App (Fitness, Weight)
Sony Lifelog App and Webportal	No	Activity Tracker (Routine, Fitness, Sleep)
Sony SmartBand 2	No	Activity Tracker (Routine, Fitness, Sleep)
Sony SmartBand SWR10	No	Activity Tracker (Routine, Fitness, Sleep)
Sony SmartBand Talk SWR30	No	Activity Tracker (Routine, Fitness, Sleep)
Sony SmartWatch	No	Activity Tracker (Routine, Fitness, Sleep)
Sony SmartWatch 2 SW2	No	Activity Tracker (Routine, Fitness, Sleep)
Striiv Fusion Lite	No	Activity Tracker (Routine, Sleep)
Striiv Fusion	No	Activity Tracker (Routine, Sleep)
Striiv Fusion Bio	No	Activity Tracker (Routine, Sleep, Biometrics)
Strava Cycling	No	Mobile App (Fitness)
Strava Running	No	Mobile App (Fitness)
Suunto Ambit2	No	Activity Tracker (Routine, Fitness)
Suunto Ambit2 R	No	Activity Tracker (Routine, Fitness)
Suunto Ambit2 S	No	Activity Tracker (Routine, Fitness)
Suunto Ambit3 Peak	No	Activity Tracker (Routine, Fitness)
Suunto Ambit3 Run	No	Activity Tracker (Routine, Fitness)
Suunto Ambit3 Sport	No	Activity Tracker (Routine, Fitness)
Suunto M1	No	Activity Tracker (Routine, Fitness)
Suunto M2	No	Activity Tracker (Routine, Fitness)
Suunto M5	No	Activity Tracker (Routine, Fitness)
Suunto MovesCount App	No	Activity Tracker (Routine, Fitness)
Suunto Quest	No	Activity Tracker (Routine, Fitness)
Suunto Traverse	No	Activity Tracker (Routine, Fitness)
Suunto Vector	No	Activity Tracker (Routine, Fitness)
Sync Burn Fitness Band	No	Activity Tracker (Routine, Fitness)
Sync Calorie Activity Tracker	No	Activity Tracker (Routine, Fitness)
Sync Distance Activity Tracker	No	Activity Tracker (Routine, Fitness)
Sync Elite Activity Tracker	No	Activity Tracker (Routine, Fitness)
Sync Fit Fitness Band	No	Activity Tracker (Routine, Fitness)
Sync GPS Watch (M/W)	No	Activity Tracker (Routine, Fitness)

Sync GPS + HR Watch (M/W)	No	Activity Tracker (Routine, Fitness)
Sync HeartRate Soft Strap	No	Heart Rate Sensor (Biometrics)
Sync Steps Activity Tracker	No	Activity Tracker (Routine, Fitness)
Telcare Blood Glucose Monitoring System	No	Blood Pressure Monitor
Under Armour	No	Mobile App (Fitness)
Walgreens TRUEresult**	Yes	Glucometer (Diabetes)
Walgreens TRUEtrack**	Yes	Glucometer (Diabetes)
Withings Activité	No	Activity Tracker (Routine, Sleep)
Withings Activité Pop	No	Activity Tracker (Routine, Sleep)
Withings Aura	No	Mobile App (Sleep)
Withings Blood Pressure Monitor	Yes	Blood Pressure Monitor (Biometrics)
Withings Healthmate Activity Tracker	No	Activity Tracker (Routine, Sleep)
Withings Pulse Activity Tracker	No	Activity Tracker (Routine, Fitness, Sleep, Biometrics)
Withings Smart Body Analyzer	Yes	Body Scale (Weight)
Withings WS-30 Wireless Scale	Yes	Body Scale (Weight)

## Devices and Apps on Integration Pipeline with PHR Plus

Name	FDA Approved?	Category	Connection Status
23andMe	?	Mobile App (Genetics)	Q2 - Q3 2016
60beat BLUE Heart Rate Monitor	No		Q2 - Q3 2016
A&D Medical UA-651BLE	Yes		Coming Soon
A&D UC-352BLE	No		Coming Soon
Apple Health / Apple Watch	No		Q2 - Q3 2016
Azumio	No	Mobile App (Routine, Fitness, Biometrics, Sleep)	Q2 - Q3 2016
Beets BLU Heart Rate Monitor	No		Q2 - Q3 2016
Bodymedia Armband Advantage	No		Coming Soon
Bodymedia Core	No		Coming Soon
Bodymedia Fit Mobile App	No		Coming Soon
Bodymedia Link	No		Coming Soon
Edamam	No		Coming Soon
Google Fit	No	Mobile App (Routine, Fitness, Weight)	Q2 - Q3 2016
GOW Trainer HRMBLE Heart Rate Monitor	No		Q2 - Q3 2016
Fat Secret	No	Mobile App (Routine, Fitness, Weight)	Q2 - Q3 2016
Helix	No	Mobile App (Genetics)	Q4 2016
Mio Global Heart Rate Monitor	No		Q2 - Q3 2016
Nonin 3230 Pulse Oximeter	No		Q2 - Q3 2016
Propeller Health	No	Mobile App (Asthma)	Q4 2016
PYLE PHBPB20 Blood Pressure Device	No		Q2 - Q3 2016
PYLE PHLSCBT4 Weight Scale	No		Q2 - Q3 2016
PYLE PSBTHR70 Heart Rate Monitor	No		Q2 - Q3 2016
RxCheck	No		Coming Soon
Samsung S Health	No		Q4 2016
SunSprite	No		Coming Soon
Yoo	No	Activity Tracker (Routine, Sleep)	Coming Soon
Wahoo Fitness TICK Heart Rate Monitor	No		Q2 - Q3 2016
Zephyr HxM Heart Rate Monitor	No		Q2 - Q3 2016

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