Entering the era of home health monitoring: What APAC healthcare stakeholders need to know?

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Editorial

Introduction: Asia-Pacific (APAC) is moving from centralized to decentralized care-delivery models, with the need for efficient healthcare services outside the hospital. There has been an increase in demand for remote patient monitoring (RPM) devices by both healthcare providers and consumers in the home but adoption and adherence is low. The major roadblock is funding for hightech devices and care management platforms. Some of the key challenges include: 1. Absence of sustainable business models due to under-developed healthcare regulations and reimbursement mechanisms; 2. Lack of an ecosystem strategy that includes sustainable partnerships between telecommunication providers, healthcare providers, insurance companies, governments or others for home monitoring. Failure to address these challenges result in inability to monetize home health monitoring solutions, although the market is packed with unexplored opportunities. This presentation will highlight some innovative business models that address these issues, and educate stakeholders on how and why the models are successful. The vendor's TempTraq is a Bluetooth-enabled wearable continuous temperature monitor in the form of a one-time use, disposable soft patch. For up to 72 hours, TempTraq senses, records and transmits body temperature data via Bluetooth to a smart device (Apple or Android) running the TempTraq app. TempTraq measures under-the-arm "axillary" temperature and this is converted to an oral temperature, which is displayed in the TempTraq app. TempTraq Connect is a cloud service supported by the Google Healthcare Cloud Platform that enables patients and caregivers to monitor body temperature from anywhere. Data from the secure server can be integrated via HL-7 standards with electronic health records, central nurse workstations, patient bedside monitors and mobile devices to provide clinicians with temperature data visualization and mapping of data to the desired patient record fields. The system is scalable and can support a single hospital or a multi-hospital/physician group health system. The system has been cleared by the FDA, CE and TGA.

TempTraq currently is being used in a number of applications where real-time continuous temperature monitoring for fever detection is warranted in oncology, clinical trials and where patients are undergoing immunosuppressive therapies. Cardiologs' mission is to democratize expert cardiac care through medical-grade artificial intelligence and cloud technologies. Cardiologs offers device-agnostic, cloud-based arrhythmia diagnostic software powered by medical-grade AI to streamline ECG analysis. Built on a growing database of more than 4 million ECG recordings, the software is designed to automate 80% of the labor required to perform an expert-level diagnosis.The diagnosis of arrhythmia, including Afib, requires timely, accurate ECG analysis. ECG analysis remains challenging for non-experts and time-consuming for experts, the vendor said. Holter and extended Holter ECG signals, which record the electrical activity of the heart between 1 and 30 days, and even up to a few years in the case of implantable devices (ILR), generate vast amounts of data that have to be analyzed manually by experts, which is a time-consuming and labor-intensive process that can result in elevated costs, treatment delays and variable quality.To reach expert-level diagnosis, Cardiologs leverages deep learning technology to capture on the ECG the ventricular and atrial rhythms, analyzing the P wave like an expert would, making it more specific than traditional software, in which ECG analysis algorithms traditionally rely on the RR interval only, the vendor contended. CAREMINDr is a health IT communications company that provides mobile-enabled remote patient-monitoring systems that give physicians the ability to enroll their patients in condition-specific "journeys," such as for diabetes and hypertension. Through the company's app, physicians can automatically check in on patients in between face-to-face visits on a clinically relevant schedule that the physician's practice controls, based on the patient's conditions. In turn, patients report biometric, objective and subjective data on their health status and social determinants of health via a patient-facing app.

Biography: Shalani Andria, Transformational Health Industry Analyst at Frost & Sullivan is a Subject Matter Expert in Asia Pacific digital health market with thought leadership covering broad range of sectors within the digital health market including Video Telemedicine, Mobile Health, Remote Patient Monitoring, Home Care, Healthcare IT, Healthcare Big Data Analytics, Healthcare Interoperability and Internet of Medical Things. She has extensive experience in strategy consulting, merger & acquisition, and public-private partnerships. She has advised top telehealth vendors, healthcare IT vendors, medical device vendors, hospital groups, and ministries on disruptive technologies, business model innovation, and sustainable ecosystem. She has been quoted in multiple industry magazines and journals

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