Consumer Health Data Aggregator Challenge

Issue Analysis Document

Version 1.0

HealthViewX

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Consumer Health Data Aggregator – Issue Analysis

Generally, patients receive healthcare services from several sources, such as physician practices, hospitals, urgent care centers, pharmacies and specialized medical centers. A patient's medical information may become fragmented among various proprietary systems throughout these healthcare sources, making it difficult for one provider to access information originally documented by another. In addition, there is also a whole lot of consumer generated health data since many consumers are adopting a rich variety of health-related websites, apps, tools and technologies. This makes it more challenging for physicians to construct a holistic picture of the patient's health nor does the patient have means to manage and maintain their complete health information from these various health sources. While healthcare players agree on the benefits of such a comprehensive view of a patient's health data, the challenges of data collation and consolidation from disparate sources, data standardization and finally making it available to the provider world with just the amount of information that is required is one of the main challenges that the healthcare industry faces. This document aims to expand the above issue:

Challenges in taking advantage of consumer generated health and provide a comprehensive view, making it actionable for the providers with the right insights and set of tools that will result in high quality care and optimal cost:-

When it comes to complete patient data, due to technical challenges, we seldom get the opportunity to pull it all together and create a clear, quantitative picture of an individual's health. We have had many healthcare experts proposing that an answer to freeing health data might be to enable patients to control it and make sharing decisions appropriately. While the current patient portals give patients access to their health information, it is restricted to one organization and most often not equipped to handle bi-directional data. And the number of different systems in which a patient's clinical / health data is maintained across organizations and also providing the means of accessibility to the patients for the same and giving them the control to share it to their care circle/team make it even more complex to handle. In addition, there is also a lot of patient / consumer generated health data available from wearbles, mHealth apps, and home health devices. Consumers are becoming more aware of their health and the availability of wearable technology motivates them to set vitals, activity, diet and sleep goals and track them. But seldom are these available at a Providers table to get an up to date view of the consumers' behavioral pattern. While patient story or narration are very significant, they are subjective and any amount of objective data generated by the consumer will be a useful piece of information to devise a patient centric care plan or treatment plan. Home health monitoring devices are also playing a vital role in collecting patient data that needs to be collated and presented in an actionable format in addition to all other data. So, in order to empower the consumers' to own a complete and comprehensive view of their health data and allow Providers to access relevant segments of that information in order to provide better care, any solution has to cross the hurdles of data integration, data standardization and data representation / visualization. Furthermore, connecting the patients and the providers and the care teams on such a platform with additional capabilities of secure collaboration (chat, call, video, group conversations, data sharing) and not demand use of multiple systems and technology will be key in helping providers take immediate and quick actions that will eventually help the providers achieve their preventative maintenance goals.