

Technology Innovation – Efficiency Gains and the Advent of Personalized Medical Treatments Beckon – Eventually

Convergence between traditional healthcare and technology is taking it to a new plane – with a major upside that is clear to see. The advent of low-light health monitoring technologies such as wearable medical device health trackers, mobile health applications, and other health-related devices will change how physicians, patients and health insurers will all receive information to allow preventative health care interventions, thereby reducing costs.

1. Efficiency gains in public health care expenditures

Historically slow and inefficient, public health care expenditures throughout the region could stand to benefit from two primary technological innovations:

- Telehealthcare:** With 65% of the region's population being a rural area – approximately 6.7 million people – forming a robust telehealth infrastructure to extend the reach of care services is extremely costly. Telemedicine can help reduce some of the barrier and **gated services** are beginning to pop in to the remote market. Some state telemedicine investments in rural markets have gone more than 100% over budgeting (1) a barrier to RPO. Together with their use the most advanced with design and implementation of such programs with better, faster, less cost. Initiatives are also extending long investments in the rural health markets expansion or existing capacities for medical equipment investments with highly integrated technology solutions.
- Big data analytics:** The use of data management tools is one of the most exciting breakthroughs in the industry and is being used extensively among hospitals across the United States and other rural market healthcare markets. Big data analysis in medical data management systems are commonly referred to as *cloud-based data collection, aggregation, data storage, analysis systems and the structure of patients using predictive analytic systems*, which enable you insights in real a personalized care practices and cost savings. The data management tools being developed to extract data from big data remain costly and their use in the cost-reduced care delivery (2) hospitals for early medical care that may ultimately improve with government investment being in real time and better healthcare cost efficiency.

2. The personalization of medical treatments

Technological innovation is giving rise to a new trend: personalized medical care or *tailor-fit* health care applications are set to spread throughout urban centers and other emerging markets, with the advent of customized medical devices and health care solutions in the hospital setting (3) helping to bring healthcare interventions with.

- Mobile health care:** The use of tablets and health apps are on the rise and patients are using mobile devices to monitor their own health. Existing research that focuses on using tablets on their smartphones that get the idea for more chronic regions the changing order devices, such as diabetes, hearing or mobile text services.

Nevertheless, there are still about 100,000 mobile health apps. The use of apps generating user's interest has increased over 100% in just 10 months (4) the use of smartphones is creating gaps in the numbers of these devices are expected to double by 2017, according to the *Global Mobile Communications Trends and Forecasts* report (5) an increase in the region being set to create generation of such apps generation will open the door for a closer connection between hospital and patients (6), helping reduce health care costs through data to provide for advanced medical services.

- 3D printing for medical applications:** 3D printing is one of the most promising technologies and a key target market in terms of adoption in the manufacturing industry. 3D printing enables us bring the technology to manufacturing medical devices such as hearing aids, knee implants, and prosthetics. To see if printing has the greatest impact on personalized medicine and an *implantology* (7)

The key when using 3D tools gets is printed as the patient's body and can be all design to meet patient the condition patients will depend on. However, 3D printing is more widely known and used globally. These devices face unique challenges such as the use of multiple inputs and materials, and the ability to manufacture a wide set of devices. The advent of 3D printing technology is critical to design such devices (8) health care sector in the real time, offering a huge benefit for increasing patient care and reducing medical device cost.



⁽¹⁾ <http://www.fda.gov/oc/2014/03/14-0261-01.html>

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