

Population Health and the Disruptive Business Models Necessary to Support It

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The United States healthcare system has been a great success and a great failure. It provides some of the finest critical, surgical, and interventional care in the world.

Unfortunately, these services make up approximately 0.1 percent of our healthcare needs and so large areas of care including pre- and post-acute, preventive, palliative, and public health services go largely under- or non-funded. This is due to a politicized fee-for-service reimbursement system created to support the needs of suppliers. These supplier entities fund Congress to ensure that their services are richly reimbursed through Congress's oversight of the Medicare Payment Advisory Commission (Med-PAC) and thus result in an excellent return on investment as opposed to return on health or quality adjusted life years (QALYs). The overall result is mediocre national lifetime health metrics including 37th in overall health, 39th in infant mortality, and 36th in life expectancy.¹

One challenge is that a small number of individuals make up a disproportionate share of our healthcare costs and our traditional healthcare system is unable to address them. These "significant few" include the top 1 percent of individuals who make up 23 percent of our healthcare costs and include those undergoing critical care services, particularly at the end of life. As a nation, we have been slow to embrace palliative care services that offer a focus on total health and well-being towards the end of life as opposed to small incremental weeks of survival on a ventilator with advanced monitoring devices that preclude an individual's ability to speak or to make autonomous decisions. The other "significant few" is the top 5 percent of individuals who make up 49 percent of our healthcare costs and these are those individuals who live with multiple chronic diseases (e.g., congestive heart failure, diabetes, hypertension, etc.) and for whom our current healthcare system offers difficult-to-access episodic treatment that is not always timely or efficacious.

The two traditional business models for healthcare delivery in the United States are the stand-alone hospital (whether community-based or academic) and the independent physician's office. Determination of a diagnosis was traditionally obtained by going to the correct specialties (often self-referred) that perform the necessary evaluation to arrive at a correct diagnosis, prognosis, and treatment plan. For example, if someone had breast cancer, this may require a visit to an OB-GYN (often serving as a primary care provider), radiologist (mammography), general or breast surgeon (lumpectomy/sentinel node biopsy), pathologist (frozen section interpretation), oncologist (chemotherapy), radiation oncologist (radiation), case manager (overall coordination), and family physician or general internist (primary care). The process may take up to three months with multiple independent business units, none of whom necessarily communicate with each other either through an integrated healthcare delivery network or health information exchange. Whatever occurs in the hospital setting is often overseen by independent providers practicing according to their individual preferences (hence preference cards in the operating room) and who achieve a wide variation of outcomes and costs.

Disruptive Business Models

In *The Innovator's Prescription: A Disruptive Solution for Health Care*, the authors popularized three different business models that address the issues mentioned above:²

1. Integrated Solution Shops for Undiagnosed Entities

When an individual presents with an undiagnosed entity such as breast cancer, instead of seeing independent physicians

Key Board Takeaways

Climbing healthcare costs for employers and their employees as well as climbing out-of-pocket expenses creates a business environment ripe for disruptive entrants that can provide convenient, accessible healthcare at a fraction of the price. The traditional stand-alone hospital and physician office will be replaced by integrated solution shops, value added processes, and facilitated networks that will focus on the specific clinical needs of risk-stratified subpopulations and permanently change the fundamental healthcare business model. A few things to consider include:

- The board, management, and physician staff will need to prepare for a new healthcare business model that is market rather than sales driven and treats the patient as a consumer with discretionary choices and payers as discretionary spenders through private exchanges and narrow networks.
- A plan should be created to transition from discounted fee-for-service to risk-based capitation so that the healthcare mission can also transition from treating sickness to optimizing health.

in their individual offices, they present to a team of aligned practitioners functioning in a clinically integrated network that provide a seamless process to go through a coordinated diagnostic effort in a time- and cost-sensitive basis. Instead of being paid through the traditional fee-for-service method, the team either receives a bundled or capitated payment based upon the effectiveness of their process. This may result in the diagnosis of breast cancer with a prognosis and evidence-based treatment plan within hours (as opposed to weeks) at significant cost savings and greater reliability.

2. Value Added Processes (VAPs) for Diagnosed Entities

Once a diagnosis is made, the patient may require acute treatment (e.g., surgery, radiation, chemotherapy). Traditionally, this is done by independent practitioners practicing autonomously according to their

1 World Health Organization (see www.who.int/en/).

2 Clayton M. Christensen, Jerome H. Grossman M.D., and Jason Hwang M.D., *The Innovator's Prescription: A Disruptive Solution for Health Care*, New York: McGraw-Hill, 2009.

