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The Impact of Telemedicine in Healthcare IT Services

By:

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Telemedicine: A Success in Veteran's Health Administration

In a pilot study performed by Veteran's Health Administration (VHA), telemedicine has been shown to:
- Decrease hospital admissions
- Decrease inpatient length of stays
- Improve patient satisfaction
- Reduce the need for long-term institutional care (Lindeman, 2010, p.147)

The Technology of Telemedicine

Teleradiology

The most common use of store and forward technology is with teleradiology, where x-rays, CT scans, and MRIs can be sent from within the same facility, between two buildings in the same city, or from one location to another anywhere in the world

Delivering Solutions through Telesurgery

- Telemedicine can be used in the remotest parts of the world or in places as close as a correctional facility, helping to eliminate the dangers and costs associated with the transportation of prisoners to a medical center (Bradley, 2013)
- Telemedicine is the development of robotics equipment for telesurgery applications which would enable a surgeon in one location to remotely control a robotics arm for surgery in another location (Bradley, 2013)

Acquiring Telemedicine Services

- Telemedicine has a great potential for increasing health care access for rural and underserved areas (Neufeld, 2012) which can overall affect the access of healthcare, the cost , and the quality of care delivered to patients.
- Healthcare organizations are using telemedicine to have health care providers who are knowledgeable and experts in their clinical studies to converse and interact with patients that are in different location (Whitten, 2006).

Value of Telemedicine

Telemedicine produces many different types of services including consultations, second options, referrals to experts, remote supervision, follow-up visits, and preoperative screenings that can improve the overall quality of healthcare provided.

Since implementing telemedicine in health organizations, there has been a quick response time in health officials communicating to patients (Reed, 2005).

Users of Telemedicine

- The demand for healthcare has grown over the past twenty years, while supply for healthcare has gone down dramatically due to the increasing rate in cost for services.
- The supply and demand will be a constant problem for access to healthcare services at least until 2030 (provencher and Nuccio, 2011).
- There is an opportunity for the delivery of care to rely on healthcare communication in order to provide access to healthcare services. (Provencher and Nuccio, 2011).

The Users of Telemedicine (Cont.)

- A study done by the Bowen Center, a private community health center, implemented a walk-in telemental health services in two rural locations.
- The telemedicine option indicated that there was a difference in the wait time from an on-site visit.
- This indicated that telemedicine appointments were available significantly sooner than traditional appointment for an appointment with a provider (Neufeld et, al, 2012).

The Effects of Telemedicine on Patients

- Reduce travel time for patients.
- There have also been regulatory agencies to implement regulations for the appropriate licensure to provide telemedicine to patients, which produces strong quality guidelines to patients. There has also been research regarding the key outcomes of telemedicine that can improve a patient's quality of care.
- These outcomes include reducing severity and length of stay, adherence to best practice methodology, financial outcomes, and increasing patient satisfaction regarding the level of medical care that was provided (Crean, 2012).

Introduction

Telemedicine is a well-known practice that involves telecommunications and health information technology to deliver healthcare to patients through online communication by healthcare providers.

Telemedicine: What Solutions Does it Solve?

- Consumer empowerment
- Increased access to healthcare services
- Using health information exchanges
- Chronic care management

External Factors that Impact Telemedicine Implementation

Facilitators:
- Legislation

Barriers:
- Data Security and Privacy Risks
- Physician Licensure
(Barwa, Bhute & Rani, 2014)

Leadership and Telemedicine

- The private healthcare technology has also contributed to develop new applicants for telemedicine that will improve clinical procedures through long distance care and supportive decision making.

Produced by:

- Randy S: Project Coordinator
  - Objectives
  - Telemedicine: What can it solve?
  - External Factors that Impact Telemedicine Implementation
  - Telemedicine: A success in Veteran's Health Administration
- Tiffany: Team Player
  - The Technology of Telemedicine
  - Delivering Solutions through Surgery
- Stephanie: Post Presentation Creator
  - Acquiring Telemedicine Services
  - The Users of Telemedicine
- Pooja S: Post Presentation Creator, Editor and Commentator
  - Effects of Telemedicine on Patient
  - Value of Telemedicine
  - Video: Telemedicine: It's a no brainer

Telemedicine: It's a no brainer

Retrieved from: www.youtube.com/watch?v=c6ATT1FLMByk

Slide Content

Objective

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The Future of Healthcare: Telemedicine

YouTube

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The Impact of Telemedicine in Healthcare IT Services

Objective

Slide Content

1. Discuss how Telemedicine is important to healthcare.

2. Discuss the external factors that impact Telemedicine.

3. Discuss how Telemedicine impacts healthcare organizations and healthcare leader's perspective of this technology.

4. Discuss how Telemedicine can be used in healthcare and the potential uses of this technology.

5. Discuss how Telemedicine impacts the patient and how it adds value to the delivery of care.

Telemedicine: It's a no brainer

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Telemedicine: It's a no brainer

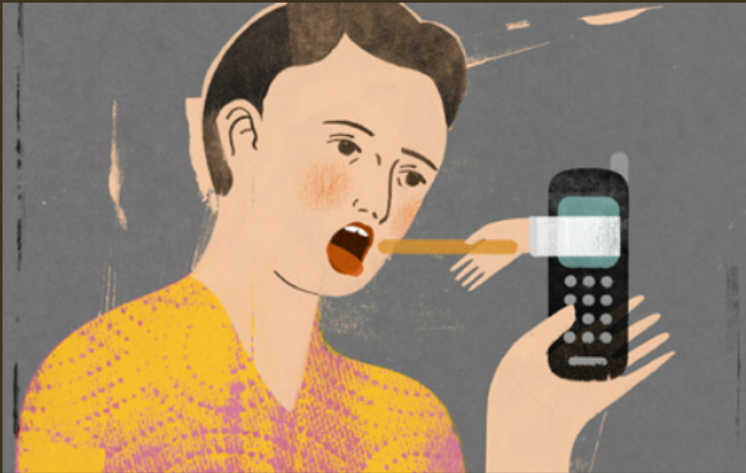
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Cont. benefits

Exchanging health information by the use of telemedicine has increased access to health care and improved quality.

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