**MCS Selective**

**Telehealth: Docs, Data and Disruptive Technologies**

**Description:** In the era of disruptive technologies in healthcare, clinicians will reach a new frontier in medical practice. With more data, technology and medical literature than ever before, how will the physician's role adapt to the changing environment of the greatest reforms in healthcare? This selective will serve to introduce the topics of telehealth and telemedicine and discuss the advances in the field as well as the laws, ethics, regulations and the evolving doctor-patient relationship. The course will aim to review the applications of telemedicine and future implications for the practice of medicine.

**Instructors**

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**Educational Objectives:**

At the conclusion of this course you will have the ability to:

1. Discuss the basic terminology and principles in the telehealth field
2. Access and comprehend information on telehealth standards, guidelines, laws and regulations
3. Examine the clinical applications of telehealth  
   a. Explore the role of telehealth in patient care outcomes, Quality Metrics and a discussion on Value Based Medicine  
   b. Understand the advances in Big Data/ Precision Medicine  
   c. Review applications of Image Based Diagnosis, Remote Patient Monitoring, mHealth, live visits
5. Explore the physician role in each application of telehealth, ethics and impact on the doctor-patient relationship.

**Requirements and Outline:**

**Week 1: Telehealth 101**

1. What is Telehealth vs Telemedicine
2. Defining Telehealth terms: live video/real-time, store-and-forward, remote patient monitoring (RPM), and mobile health (mHealth)

3. Understanding the laws regulations and guidelines for telehealth including Dilemmas:
   a. HIPAA (Health Insurance Portability and Accountability Act)
   b. Clinician Licensure
   c. Data Analytics and Telehealth
   d. Telehealth in Value Based Care and Quality Improvement

**Week 2: Clinical Applications of Telehealth Part 1**

1. Introduction of Live (Synchronous) visits and Remote Patient Monitoring (RPM)
   a. Review of diagnostic follow up procedures (imaging, labs, etc) and timelines for common telehealth presentations (unstable HTN, Hyperglycemia, COPD exacerbation, Heart Failure Exacerbation, rashes/skin lesions, URI, UTI, prescription refills)

2. Practical applications of Telehealth Technologies
   a. Interactive workshops

3. Guide to Webside Manner

**Week 3: Clinical Application of Telehealth Part 2**

1. mHealth: Using Mobile Health for Chronic Disease Management
   a. motivational interviewing
   b. using apps for behavior change

2. Interprofessional Interactions During Telehealth

**Week 4: Evaluating Telehealth Technologies**

1. Student Presentations on Telehealth Technologies Evaluation

**Evaluation**

**Evaluation (Pass/Fail):**

1. Attendance and active participation in discussion

2. Compose a short (5 minute) presentation on a telehealth topic of interest