Discovering Mobile Applications as New Resources in Medicine:

Can Apps Enhance the Doctor-Patient Relationship and Improve Personal Health?

Introduction

- Presenter 1 + App Demo
- Presenter 2 + App Demo
- Joint Discussion
- Q & A
  - Tweet questions anytime to:
    - @IU_HIT
    - @KALBABA
Brent Orndorff, H.I.M., B.S.

- IU School of Medicine – Terre Haute
  - Health IT Specialist and Lecturer
- Founder and CEO of OMT, LLC
  - MEDBERI™ app
    - EHR 2.0 suite (+PHR, CDS, Medical Coding, etc...)
    - Cutting-edge HCI (hands free AI interface) and exclusive social support network for health professionals on MDforum™
  - MobileDOC™
    - Clinical Decision Support Using Robust Knowledge Bases
  - MEDI-REDI™ pillbox
    - Electronic pillbox with mobile app linked for time-released compartments for medication adherence and management
Development Platform

- Adobe Dreamweaver™
  - Traditionally a web design software
  - Now includes PhoneGap™ integration for mobile development
Development (Cont.)

App Features
Demonstration

Kareem Albaba, B.S.

- Rising third year at IU School of Medicine
- Founder of Quantime
- Motivation
  - Daily Self-Monitoring of Body Weight, Step Count, Fruit/Vegetable Intake and Water Consumption: A Feasible and Effective Long-Term Weight Loss Maintenance Approach (May 2012)
  - Use of a Computerized Tracking System to Monitor and Provide Feedback on Dietary Goals for Calorie-Restricted Diets: The POUNDS LOST Study (Sept. 2012)
  - Pew Research The Diagnosis Difference (Nov. 2013)
Development Platform
Development

App Features
Demonstration

Joint Discussion

• How can apps be integrated to improve care?
  #1 - Sync data between apps
  #2 - Eliminate duplication
  #3 – Assist procedure during patient interaction
  #4 - Give MD new view into patient’s lives
Mobile Technology Integration

- Scenario 1 (Current)
  - H&P used during patient visit for History & Physical
  - Quantime used to track health behaviors between visits

- Scenario 2 (Ideal)
  - Quantime + H&P App are fully integrated
  - Automatic syncing between apps
  - H&P data can create new tracker
  - Quantime tracking data can direct discussion in follow-up visit

Real World Scenario

- Tonic Health app
  - Electronic intake form
  - iOS, Windows, Android
  - Free and Paid versions

- IU Health Goshen ACO
  - ACO included 24 physician's offices and clinics
  - Assisted in meeting MU objectives
    - New things learned – 100% completion rate
    - Allowed new analytics and quality metrics
    - Positive reaction from patients (no duplicated information!)
  - Will be used in IUSM-TH student clinic
Q & A

Thank You!

› Visit us online:
  › Quanti.me
  › HealthMatters.Indiana.edu
  › OmtLLC.com

› Twitter:
  › @IU_Hit (Brent)
  › @kalbaba (Kareem)