All Nations’ Healing Hospital

iNurse, iTeach Project

Using Mobile Applications in Client Education

SaskPic Annual Conference and Meeting

Saskatoon, SK

September 20, 2013

Acknowledgement of:

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Organizational Goals

• “To provide quality health care services which strive to exceed all required standards, regulations and legislation”

• “To be future oriented, innovative and strategic in planning and service delivery, embracing the uniqueness of the All Nations’ Healing Hospital”
Why the...iNurse, iTeach Project?

- Recommendation of Accreditation Canada

- Improve patient education in areas of chronic disease, women’s health and home care in any location

- Immediate access to the most current educational material and resources

- Wireless, paperless solution for patient education and caregivers

- Build on existing technologies, such as PDAs, for future innovations
“Physician Facebook”

- Health users more likely to access the Internet daily
- More women seek health information
- Urban > rural
- Most commonly searched for information:
  - Specific diseases
  - Lifestyle (diet, nutrition, exercise)
  - Specific symptoms
  - Medications
The Social Life of Chronic Disease

- Having a chronic disease increases the likelihood of using the Internet for blogging, contributing to an online discussion or online group forum that helps people with personal issues or health problems. (Pew Internet, 2010)
Why the iPad?

- Large, multi touch screen
- Wireless internet capability
- Large storage capacities
- Long battery life
- Download apps
- Previously used PDAs
Objectives of the Project

- Facilitate the introduction of iPads into patient teaching
- Focus on areas of chronic disease management, home care and women’s health
- Assess the impact of the use of medical and health applications on the client’s and family’s enhanced understanding of their condition, diagnosis, treatment plan and active participation in their own care
Participants in the Project

- Registered Nurses
- Licensed Practical Nurses
- Nurse Practitioners
- Midwives
- Dieticians
- Environmental Health Officers
- Lab Technicians
- IT Staff
Apps

- Varied by specialty
  - Started with 34 apps
  - By end 92 apps
- Used trusted websites
- Dropbox
- YouTube
Common Apps Used in Practice

• DrawMD OB/GYN
• Cardioteach
• YouTube
• Flip Through Diseases and Disorders
• Puff’d
• Drug Reference
• Visual Dx
• Timer+
• Calculate by qxmd
• Other apps:
  – Universal Doctor
  – Red Book
  – iscrub
  – Do Bugs Need Drugs
Identified Barriers to Using iPads

- WiFi connection needed
- iPad not intuitive for all
- Lack of apps
  - “too primitive”
- Security
- Use of personal cell phones
- Weight
- Infection Prevention and Control
Facilitators to Increasing Use of iPads

• Good form of communication
• Access to information
  – More readily available as did not have to search the Internet
• Other health care professionals using it
  – Doctors, new grads
Infection Prevention and Control

So… How do we clean it??

• Collaborative working with the PhD Student

• Networking with ICPs at the 2012 CHICA National Conference in Saskatoon

• Literature review

• Comprehensive policy developed
Infection Prevention and Control Related to Electronic (IT) Devices in Healthcare Settings

- PIDAC Best Practices for Cleaning, Disinfection and Sterilization in All Health Care Settings
- Alberta Health Services. Cleaning and Disinfection of Information Technology and Telephone Equipment and Devices.
ANHH Policy Highlights

• Electronic Devices increasingly important in health care delivery.

• All touch surfaces used at point of care must be cleaned with hospital grade cleaner and per manufacturer instructions

• Purpose of the Policy to provide guidelines for all users on cleaning and disinfection of electronic devices

• Devices must be used with clean hands, patients/clients must wash their hands prior to touching the device

• The user/owner is responsible for cleaning the device
At ANHH
INFECTION CONTROL

is Everybody’s Business!!

ANHH Infection Control Orientation Manual
Successes

- Diabetic Education/ Home Care/ Community Services
  - Adult learning
  - Home monitoring
  - Lifestyle education
  - Foot care
  - Connectivity “hotspots”
  - Opportunity to talk to clients about using electronic devices safely (Infection Prevention and Control)
Successes..

• Acute Care/Women’s Health Center
Successes

• Apps for children
  – Helping parents distract bored children
  – Distraction during painful procedures
  – Learning and exploration
Successes

- Access to timely resources at point of care
  - Medication research
  - uCentral / Lexicomp
  - Best practice
Successes

• Hand Hygiene Survey

• Patient Safety

• Accreditation

• IPAC Guidelines on use of electronic devices
Challenges

• Time
  – User responsible for cleaning their equipment
  – Time is required to clean the equipment

• Technology can be complicated
  – iPad interface
  – Encouraging use of technology
  – Paperless Healthcare
Impact

• Up to date information

• Daily use

• Variety of teaching tools

• Guidelines for Infection Prevention and Control
Acknowledgements

- Heath Canada and MITACS Canada for funding the project

- College of Nursing, University of Saskatchewan for their research expertise

- ANHH and FHQHS staff who participated in the study

- IT team at ANHH