

# Security governance

Title: Web-Based Research  
Technological Tools

Date: February 7 2013

Centre universitaire  
de santé McGill



McGill University  
Health Centre

# Agenda Research@MUHC

- Historical context & Legal framework
- Few words about RI & their offer
- Web tools available
- Patient Questionnaires
- Patient Databases/CTMS
- ePatients
- Training

# Historical context

- Last year made a presentation to talk about Research in the CLOUDS
- Highlighted a few that benefits researchers
  - RI started a “pilot” with RedCap with 19 researchers
- Will not advertise what RI is currently doing & will only talk about what is relevant for researchers @MUHC

# MSSS Communication



Guide d'élaboration des cadres de gestion des BD et de matériel biologique constituées à des fins de recherche, Oct2012, ethics unit

- Outlining what a researcher needs to show REB about their DBs (& biological samples)
  - Description, ownership, management, protection/confidentiality
  - Intellectual property, commercial value, Data destruction
- <http://publications.msss.gouv.qc.ca/acrobat/f/documentation/2012/12-727-02W.pdf>

# RI's new portal

- eReviews for projects are entered here
- You need this to access new SOPs, Jan 7th
- Clinical Research Training (SOPs & GCP)

□ <http://researchportal.muhc.mcgill.ca/>



# RI's

The Glen Campus will see the creation of

- Centre for Innovative Medicine (CIM) and the Centre for Translational Biology (CTB)

*These centres will be integrated with other clinical research units, including the*

- Centre for Research in Health Outcomes and Delivery of Service.



Research Institute

# Needed Research Functions

- Clinical information system
- Patient questionnaires & answers
- Patient databases
- Administrative functions
  - Budget allocations
  - Salaries to pay

# Patient questionnaire solutions

## ■ LimeSurvey



□ Public domain tool to be used for building questionnaires

■ *intended for use by McGill faculty and staff for research or administrative purposes*

<http://kb.mcgill.ca/kb/?ArticleId=1452&source=article&c=12&cid=2#tab:homeTab:crumb:7:artId:1452>



# Patient questionnaire solutions

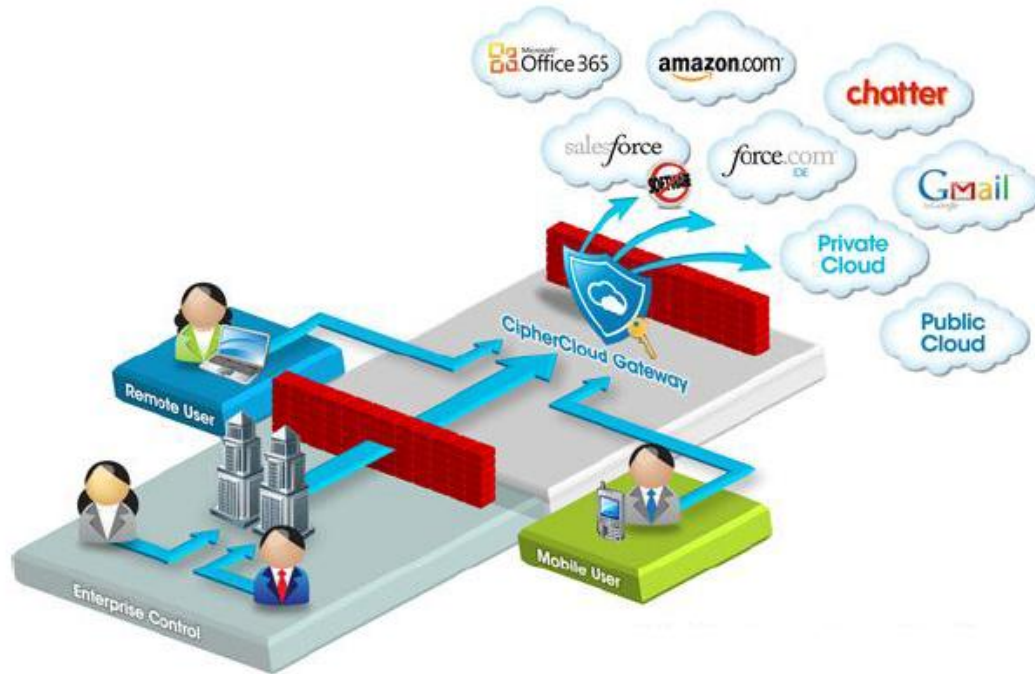
## ■ Fluid Surveys



- ☐ Free Base plan available
- ☐ Supports bar codes!
  - You can initiate surveys from e-mails, QR codes, Social networking, your own web site
- ☐ Located in Canada (*vs USA for Monkey Survey*)

# Cloud Based Research

## ■ One word about Cryptology



■ <http://www.ciphercloud.com/>

# Cloud Based Research

- Protecting Patient information on WEB
- Cloud Encryption Gateway
  - Data Security thru encryption/control of keys
  - Data Residency using servers in our Country
  - Data Privacy since stored data is encrypted
  - Compliance with Laws & regulation

# Patient databases



- REDCap; Research Electronic Data Capture
- Build & manage online surveys & databases quickly & securely
  - Intuitive interface for validating data entry
  - Audit trails for tracking data manipulation & exportation
  - Automated export procedures
  - Importing data from external sources
  - Supports SSL encryption (data in transit)
- 57K projects & 76K users
- From Vanderbilt University
- <http://project-redcap.org/>

# Clinical Trial Management System

- CTMS: Software System & Technology used by health professionals to *manage processes & large amounts of data* involved in Clinical trial management & clinical study management
- eClinical: automating the management or conduct of clinical trials

# CTMS; an overview

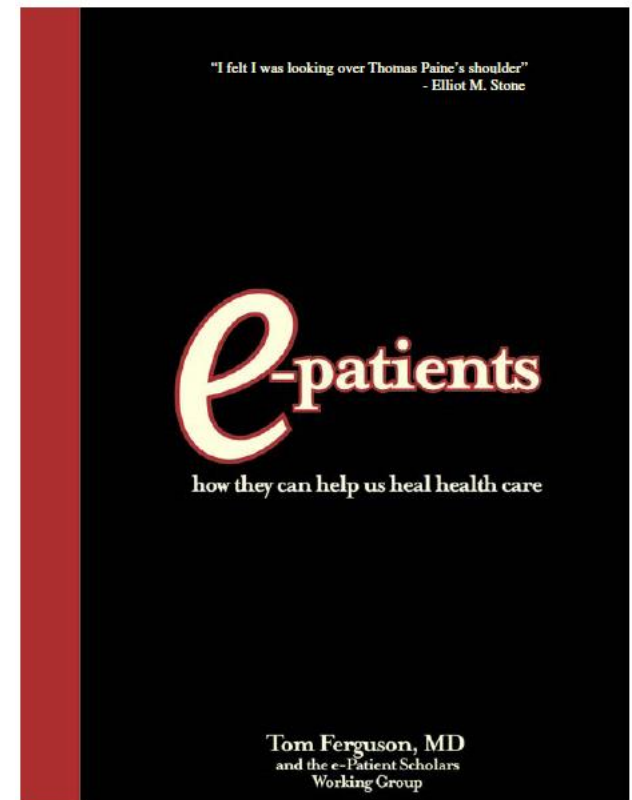
- Document tracking; forms/templates/instructions
- Subject recruitment/scheduling & visit tracking; planned/unplanned/reporting
- Payment processing; Accrue/internal cost, budget controls
- Clinical supply & inventory management
- Financial tracking & Executive-level reporting

# Medical & Social media resources

ePATIENT is a term coined  
late 1999 (Dr Tom Ferguson)

***They represent a new breed of  
informed health consumers,  
using the Internet to gather  
information about a medical  
condition of particular interest to  
them***

- <http://e-patients.net/>
- <http://www.webicina.com/>



# CTMS Training

- CTMS BioPharma/Oracle/Siebel's (April 25, 2013)

- <https://cc.readytalk.com/cc/s/registrations/new?cid=nzfcucjgo4gn>

- Merge CTMS for investigators  
Demonstration Webinar (Feb 21st, 2013)

- <https://www1.gotomeeting.com/register/986474016>

- <http://www.merge.com/Company/Events.aspx>



# QUESTIONS???