e-Health and Big Data

safi.re (Structured Analysis and Filtering Integration Engine)

Prof Bill Buchanan, Niall Burns, Richard Lewis, Dr Lu Fan, Owen Lo, Omair Uthmani

http://safi.re
e-Health and Big Data

Context

Prof Bill Buchanan, Niall Burns, Richard Lewis, Dr Lu Fan, Owen Lo, Omair Uthmani
http://safi.re
Integrated and Secure Cloud-based e-Health for Holistic Care

Industrial Age

Centralised, Non-integrated, Ad-hoc, Clinician Focused, Reactive, Clinician Control of Records

Information Age

Distributed Patient Care, Holistic, Patient Focused, Pre-emptive, More Patient Control of Health
Integrated and Secure Cloud-based e-Health for Holistic Care

- Social Care
- Law Enforcement
- Family
- Child
- Care Worker
- GP
- Patient
- Family

Risk Assessors:
- Early Warning Score
- Frailty Index
- Posted Concerns
- Attendance Records
- Health Problems
- Crime Trace

Records:
- Child's Action Plan

Strong Governance Infrastructure

Tier 4 Data Infrastructure
Integrated and Secure Cloud-based e-Health for Holistic Care

Rights

Health/Social Services

Human Trust

Strong Governance

Infinite possibilities

Identity

Digital Trust

Strong Governance Policy

Translation of rights
Translation of identities

Social Care

Police/Law Enforcement

Education

Health Care

Secondary Health Care (role-based)

Primary Health Care (role-based)

Assisted Living (Circle of Trust)

GP might ask: How often does the team meet to discuss the child?

Family might ask: Who are the people responsible the action plan?

Social Care might ask: When is the next formal review of the case?
Integrated and Secure Cloud-based e-Health for Holistic Care
e-Health and Big Data

Governance, Trust and Access Framework

Prof Bill Buchanan, Niall Burns, Richard Lewis, Dr Lu Fan, Owen Lo, Omair Uthmani
http://safi.re
Integrated and Secure Cloud-based e-Health for Holistic Care

Cloud-based Infrastructure for Clinical Services

Delivering Assisted Living at Scale

 Trusted Services: Assisted Living
Integrated and Secure Cloud-based e-Health for Holistic Care
e-Health and Big Data

Enablers and Barriers?

Prof Bill Buchanan, Niall Burns, Richard Lewis, Dr Lu Fan, Owen Lo, Omair Uthmani
http://safi.re
Doctors’ surgeries will have to set up services to allow anyone to see their health files, book appointments and order repeat prescriptions on the Internet.

The new campaign is being spearheaded by Jeremy Hunt, the Health Secretary.

“Looking after their own health, and the health of their families needs to be as straightforward as possible.

“Looking after our health should be easy — in an age where people can do their banking or shopping online, it should be just as simple to view your health records, order a repeat prescription or book a GP
Within three years do you think you will be able to get access to your EHR?

1. Yes.
2. No
If you had access to your EHR, what would you want access to?

1. All of your record.
2. A summary of the record.
3. None of the record.
If you had access to a EHR, when is the situation that you would most value it?

1. All the time.
2. When you were ill.
3. When someone in your family was ill (and you had their consent to access their record).
What is the greatest issue in providing citizen access to EHRs?

1. Poor security within the health care system.
2. Resistance from health and social care professionals.
3. Lack of understanding of the usage of the Internet from citizens.
4. Difficult to change existing systems to allow access.
5. Poor access to the Internet.