Suggestions of assignments - Medical Informatics 2013-10-31

Hands-on work r/t IT-development phases in eHealth development

- Mobile interface design of personal EHRs
  - Students chose design tools and degree of mockup/prototype level.

- Use of personas to evaluate current version of Sustains
  - Access to your personal EHR is needed
  - Students need to select appropriate evaluation method and
  - Create personas, or possibly use Evry’s personas?

- Create an online feedback (Sustains /eRecord) to improve user engagement
  - In Sweden? In other countries?
  - Compare to other domains’ (eg. Banking) design regarding content and design
  - Discuss constraints and design issues to succeed in improvement?
  - Describe needed workflow (both in system and in organization) to satisfy “public users”

- Evaluate consumer health products and suggest improvements
  - Aftonbladet Health, RunKeeper…
  - Patient wearables and other gadgets

- Your own patient experiences: Private Health data in relation to Personal EHRs provided by the Healthcare organisation – which data belongs where and why?
  - Specific patient groups (org) or your own data and needs - Initial contact with CeHis/mina vårdkontakter?

Interview/Literature studies –ROOM FOR IMPROVEMENT (search pubmed etc)

- Virtual communities in healthcare (patientslikeme, quantifyself and others)
  - Who are they, how are the communities built, how do they work..? aims and objectives? improvement suggestions?

- Clinical apps (often consumer/self-management) in relation to patient empowerment?
  - Do clinical apps work as patient empowerment tools?

- Consumer empowerment via Health Apps in Public health
  - Stop smoking, chronic diseases; get fit, lose weight... - How do this work IRL?

- Physicians (or Med.Stud’s) views on Patient-related eHealth and its impact on Patients, Physicians and their relationships. (Interviews required in Swedish?)
  - EU study on communication via e-mail exists, extend that study to include attitudes, respect and relationships etc.

- Review of /mobile/ Health applications related to /Mobile/ UC Design Guidelines
  - To what extent do they follow the guidelines? Effects related to that?
- International comparisons – how to take care of patient’s interests (differences in Europe)? -
  - Different patient organisations’ point of view (interviews?)

- RCT studies in eHealth where other evaluations methods could have been used...

- User Centred Design – when, where, how and why is it used in eHealth? In relation to the
  UCD standard and methodology – do the projects follow the standard or..?

- Who publish failures in eHealth (uni/healthcare org/industry?) and what kind of failures –
  what can we learn?
  - National/international perspectives
  - Socialstyrelsens Lex Maria for MI/MT deviations

- Ethical and legal issues regarding accessible EHRs internationally
  - How do others do? Based on what? (search pubmed, EU-sites etc)

- Patient empowerment r/t public eHealth systems
  - Definitions by EPF and application in practice?

- Progress in Europe/globally/ regarding Patient access to EHR?
  - Different countries’ eHealth strategies and current status regarding work towards
    patient access.
  - Literature + interviews – what they say and what they do...

“LUL as a Customer”-projects
– Swedish speaking persons are mandatory

Deliverables: graphs/diagrams and oral presentation + report.

How is the clinical data used by the users?
Statistical analyses of the Sustains/Cosmic data out of .xls documentation (Sept 2013)
- Which patients are using the system, when? Where? How often?
- What do they want to know? Control the logs? Change access?
- Do they read other’s records? Children? Elderly?

Examine patients’ general knowledge of Sustains/eRecords and if they use/have entered
the JPN that is accessible for LUL patients.
- Data collection = 4 questions (do you know.. If yes, have you accessed, age/gender?)
  - Outside Primary care units/hospital entrances: 3 days/student: and 2
    studenter/entrance.
  - 2 groups are out collecting in 3 days visiting 6 care units
- Requirement: to get as many answers as possible.
- Try to compare with the data in Sustains: Did your presence changed the behaviour?
  - if your interviews made patients/people go and access their personal EHR?