

Cancer Innovation Challenge

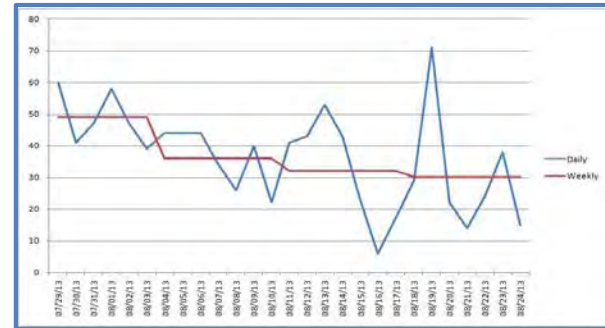
Patient Reported Outcome Measures (PROMs) The LICAP system

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PROMs to support patient care in routine practice



Clinical method – Medical interview
Gathering of subjective information
Diagnostic aim

Patient Reported Outcomes Measures
Quantitative information on
symptoms and functioning

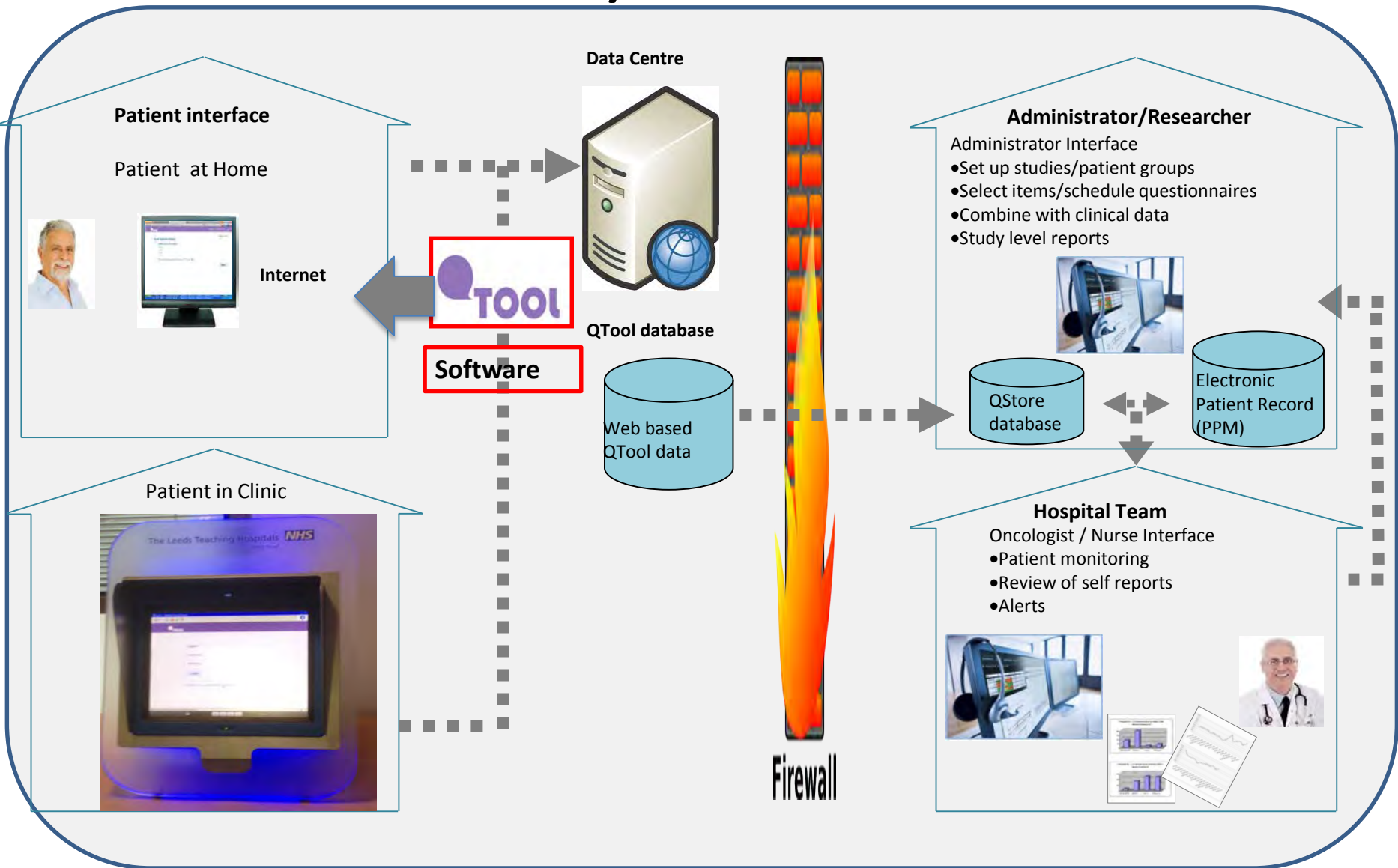
Benefits

- Detect and monitor physical and emotional problems
- Impact on patient-clinician (doctor/nurse/radiographer etc.) communication
- Facilitate patient involvement in decision making
- Aggregated group data for service planning

The LICAP system

- Secure online system
- Real time linkage to the electronic patient record
- Flexible questionnaire scheduling
- Varied question 'types'
- Serial and 'one-off' feedback (graphical/tabular)
- Alerts & self management (individual patient care)
- Aggregated group data for data linkage
- Trained, engaged staff
- IT back-up

LICAP system: QTOOL



Technical considerations

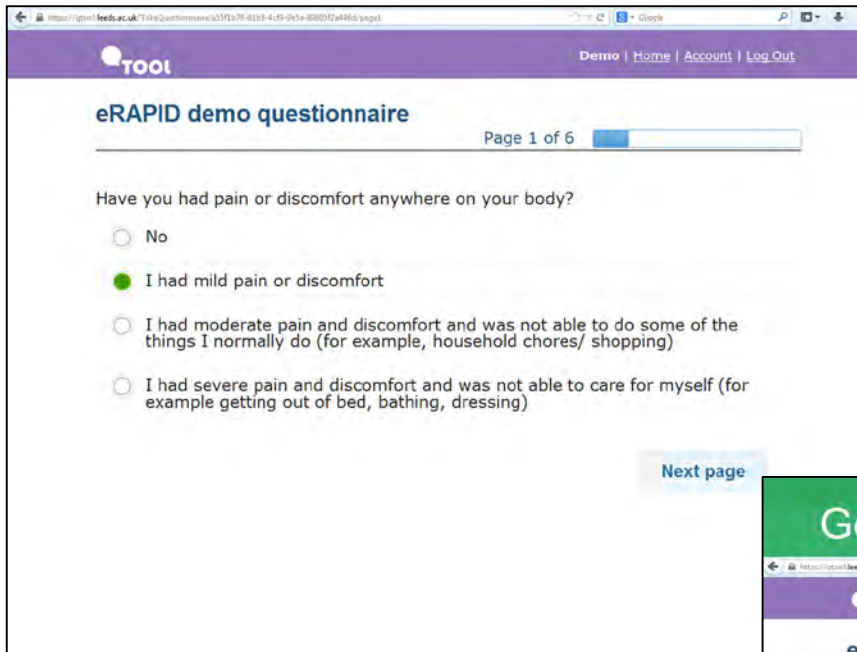
- Linking non-identifiable PROMs data with confidential NHS data
 - Usernames and passwords?
 - Portal?
- Real time transfer
- Ensuring sustained EPR compatibility
- Patient access
 - Mobile phones?
 - Tablets etc.?

Administrative considerations

Who will undertake

- Setting up the PROMs
- Scheduling PROMs
- Allocating patients to PROMs
- Username and passwords

Consider ease of use



TOOL Demo | Home | Account | Log Out

eRAPID demo questionnaire

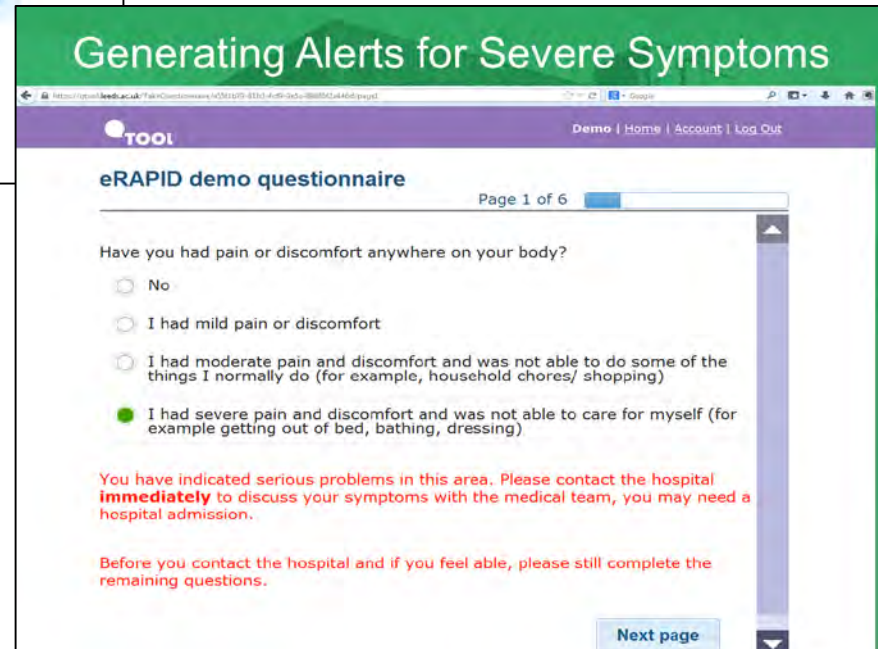
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Have you had pain or discomfort anywhere on your body?

- No
- I had mild pain or discomfort
- I had moderate pain and discomfort and was not able to do some of the things I normally do (for example, household chores/ shopping)
- I had severe pain and discomfort and was not able to care for myself (for example getting out of bed, bathing, dressing)

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Patient view



Generating Alerts for Severe Symptoms

TOOL Demo | Home | Account | Log Out

eRAPID demo questionnaire

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Have you had pain or discomfort anywhere on your body?

- No
- I had mild pain or discomfort
- I had moderate pain and discomfort and was not able to do some of the things I normally do (for example, household chores/ shopping)
- I had severe pain and discomfort and was not able to care for myself (for example getting out of bed, bathing, dressing)

You have indicated serious problems in this area. Please contact the hospital **immediately** to discuss your symptoms with the medical team, you may need a hospital admission.

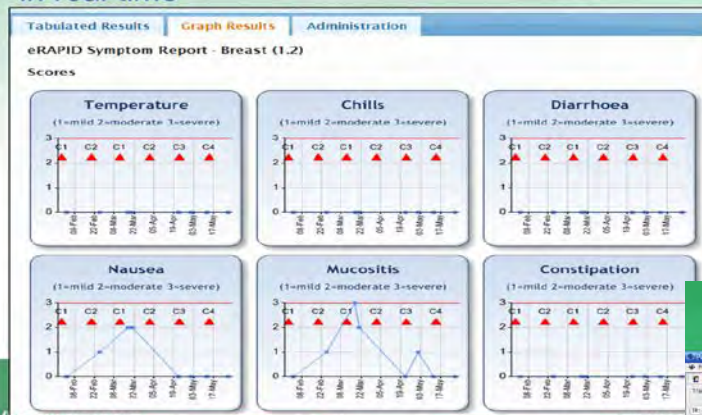
Before you contact the hospital and if you feel able, please still complete the remaining questions.

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Consider ease of use

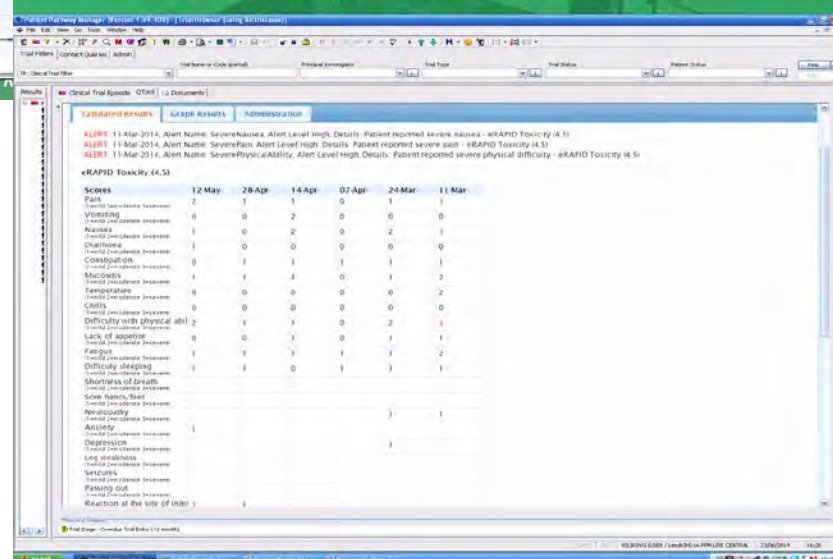
Clinician view EHR- graphs

- Integration with Electronic Patient records in real time



Clinician view

Clinician View in EHR - Table

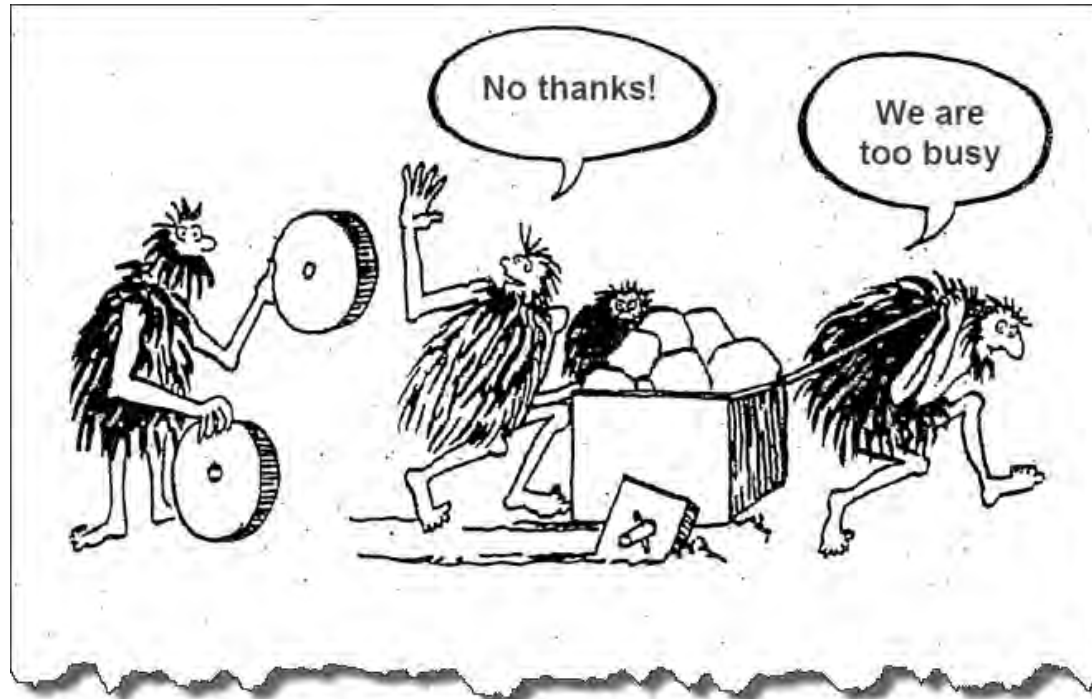


Ethical considerations

A patient completes a PROM in the middle of the night from home and reports a very severe symptom (e.g. pain, vomiting, high temperature, suicidal). They may assume some action will follow.

- Roles and responsibilities
- 24 hour technical back up
- Data security
- Who gets to know / sees the data?
- What are patients told about this?

Training considerations

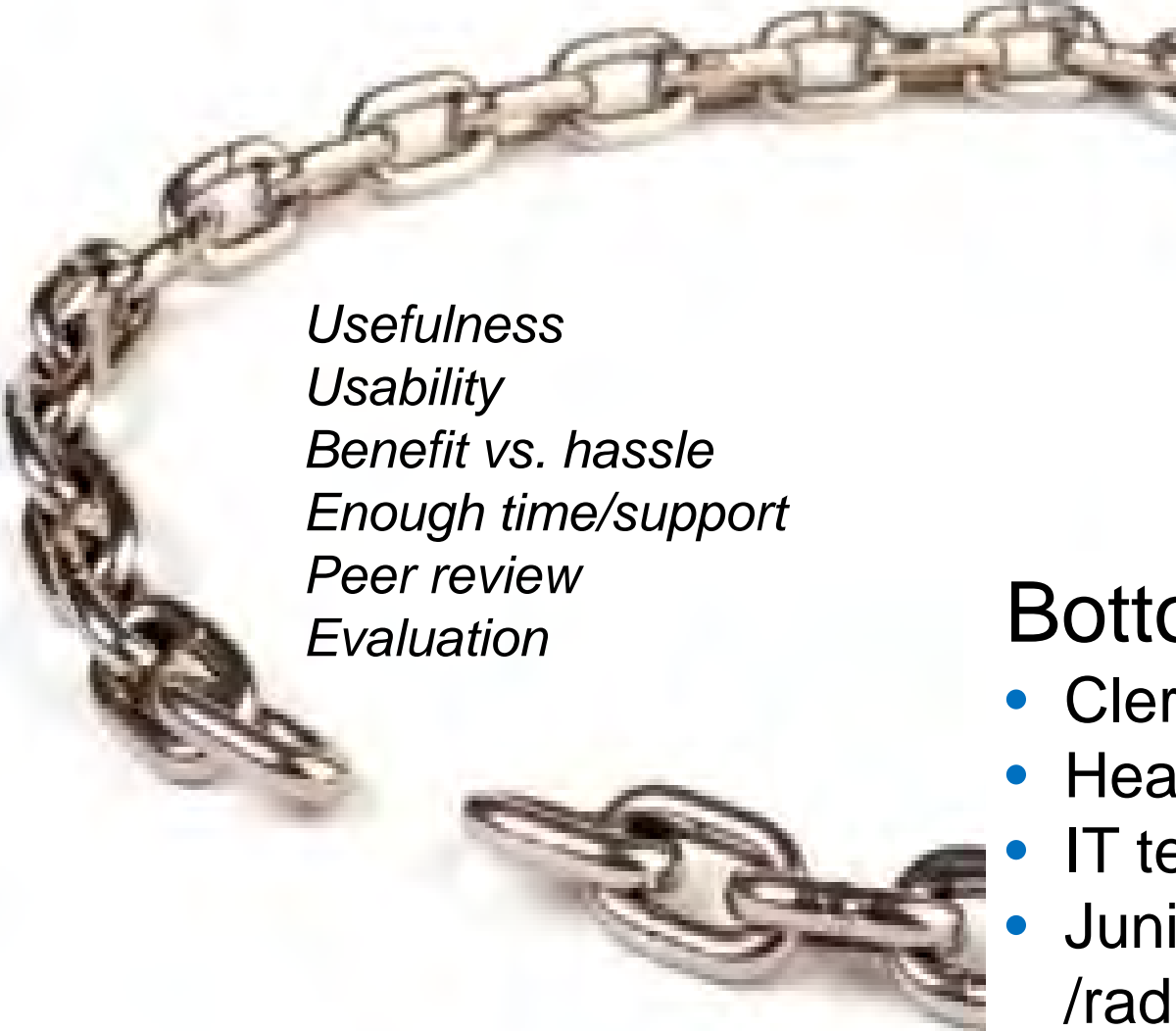


- Different staff needs
- Scheduling/priority
- Staff changes
- Critical mass
- Who will train patients?
- How will they be trained?
- What about updates?

Consider buy-in

Top down

- Commissioners
- Management
- Senior clinicians
- Senior IT



Usefulness
Usability
Benefit vs. hassle
Enough time/support
Peer review
Evaluation

Bottom up

- Clerks/administrators
- Health care assistants
- IT technicians
- Junior nurses /doctors
/radiographers

[A blood count in a case of hidatid disease of the liver](#)

Loncridge, CJN

LANCET Volume: 2 Pages: 44-45 Published: **1902**

[The blood count. Improvements in method.](#)

Alport, AC

LANCET Volume: 2 Pages: 756-758 Published: **1922**

[The interpretation of the blood count.](#)

By: Dyke, SC

LANCET Volume: 2 Pages: 936-937 Published: **1928**

If it was easy it would be up and running now

- Takes time
- What is true of blood counts may be true for PROMs
- Start simple and build a flexible system
- It is worthwhile