CanReg 5 improvements

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January 25, 2012

Introduction

This document is a road map for the development of CanReg5.

CanReg 5.1

Remaining ideas/fixes for CanReg 5.1

Data Entry related

- Improve detection of changes to a record.

- Let user enter dates in the format they wish?

- Only one save button for all records for a patient?

- Implement shortcuts in the data entry form:
  - "Home, "End" keys for the first, last variable.

Database related

- Move XML to the database so that we no longer have mismatch.

  - During backup we export it.
  - During start up of server we first get the XML from the server.
  - Stored as a BLOB?

- Better database connection security.

- Move deprecated/obsolete cases to a different table?

- Optimize queries.

Analysis related

- Implement all the analysis tables proposed.

  - Others:
    * Table of rates by year with the same groups as the curernt incidence table? (DF)

- Group by other meta variables for frequencies by year (age group, 2 digit icd10 etc)

- Export report automatically opened in the System?

- Automatically pick up the population data set when building tables based on year, filter etc.

  - An intermediate question asking for sub pop?

Quality control

- First name sex improved

- Improve person search

    - Look into using the Duke library.
    - Improve the dedicated merge patient interface.
        * A table is displayed, where the top line contains the original record you are editing, and other lines contain possible matches. You must tick the corresponding box on the left if you are sure it is the same person. (Tick the appropriate "Display variables" boxes to adjust what variables are displayed.) If you tick a record, then you must perform the "Multiple Primary Test" to see whether these two tumours are similar (and therefore duplicates) or not (multiple primaries). In case of duplicates, you must make one good record with all new information updated, and delete the other. In the case of Multiples, both records are kept, and the MP sequence and total boxes are automatically filled in.
        * Highlight differences between records.
    - Accept all (without looking) after a search run?

- Local edits

    - xml (variables needed, values accepted: ... , cominations accepted:...)

- Standard view of completeness of a certain variable. (Fex: 42% of cases has stage.)

- Missing values % (per year)

- Optimize code.

Management related

- Better detection of missing mandatory variables

    - Database workings
        * Source ID etc
    - Registry workings
        * Topo, Morpho, Address etc.

- Possibility to change the path of the database/other system variables.

- Variables grouped by table/on screen group

- Migration wizard:

  - Ask user to export data from CanReg.
  - Ask user to export dictionary from CanReg.
  - Ask user to find the system definition file.

    * Convert it and ask if the user would like to optionally change some elements

  - Import the dictionary.
  - Take backup. (Make copy as empty.)
  - Offer to import population dataset.
  - Take backup.
  - Import the data.
  - Take backup.

Pending bugs

- Import bugs should not break import when

  - unclosed double quotes
  - "empty lines"
  - lines with too few elements

Proposals for CanReg 5.2

Ideas/fixes for CanReg 5.1.

General

- Improved printing functionality.
- Internalize some dictionaries (this has started, but can be taken further)
  - ICD-O-3 (Topo, Morpho, Behaviour)
  - Record Status.
  - Check Status.
  - Person Search Status.
- The possibility to select premade dictionaries during set up?
- Migrate GUI away from Swing Application Framework?

Data Entry related

- Support for some other date formats?
  - Buddhist
  - Other? Chinese?
- Improve workflow during data entry.
  - Use another GUI/form system? http://www.miglayout.com/ ?
- Build a dictionary chooser into the record editor?
- Import excel files using http://jexcelapi.sourceforge.net/

Database related

- Mortality data?

Analysis related

- Use of mortality data in analysis?

- Export excel files using http://jexcelapi.sourceforge.net/

- Export to EpiInfo?

  - What version?
  - Format?

- Export as html with help of graph libraries?

  - http://cyberpython.github.com/AwesomeChartJS/
  - http://code.google.com/p/flot/

Management related

- Changing some user rights levels

  - Hiding the browser for a user-level between analyst and registrar?

- Adding dedicated procedures to deal with central databases.

- Streamline the setup of new systems

  - New system wizard

- Implement other algorithms for names sounding alike during person search

  - Double Metaphone (http://commons.apache.org/codec/apidocs/org/apache/commons/codec/langu
    * Limitations: only A-Z