



CanReg5 Webinar 4: Data Entry

CanReg 5

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Outline

Entering a case

Using browse/filter to find cases

Import

Live Demo

Summary

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Create new record

Add tumour record Merge with other Patient ID Enable obsolete records PDF Print Patient/Tumour

Patient: record1

Person Se... Updated
By: unknown

Run Menu
Save

MiddleName	
Maiden name	
Family Name	
Sex	
Birth date	

Tumour record1

Checks	MP Search	Record Status	Sequence Number:	Updated
Run	Run	Pending (0)		By: unknown
Not done			Total:	

Tumour

Incidence date	
Topography	
Morphology	
Behaviour	

Create new record

- ▶ Notice the split between patient, tumour and source.
- ▶ The data entry form is highly customizable.
- ▶ Four different variable types:
 - ▶ Numbers
 - ▶ Text
 - ▶ Coded values (dictionaries)
 - ▶ Dates

Entering the patient information

- ▶ First we enter the patient information.
- ▶ Interactive code validation.

The screenshot shows a web-based form for entering patient information. At the top, there is a text field containing "Patient: record1". Below this, there are two sections: "Person Se..." with a "Run" button, and "Updated By: unknown" with "Menu" and "Save" buttons. The main form area contains several input fields, each with a label on the left and a text input area on the right. The "Family Name", "Sex", and "Birth date" fields are highlighted with a red background, indicating validation errors. The "Race" field is also visible but not highlighted. The form has a scroll bar on the right side.

Field Label	Input Area	Validation Status
MiddleName	<input type="text"/>	Valid
Maiden name	<input type="text"/>	Valid
Family Name	<input type="text"/>	Invalid (Red background)
Sex	<input type="text"/>	Invalid (Red background)
Birth date	<input type="text"/>	Invalid (Red background)
Race	<input type="text"/>	Valid

Patient deduplication

- ▶ Probabilistic matching.
- ▶ User configurable.
 - ▶ What variables should be involved.
 - ▶ What are their weights.
- ▶ CanReg5 can only *assist* in this matter. Up to the user to decide if two patient records matches.

Entering the tumour and source information

- ▶ Enter tumour and source information.

Tumour record1

Checks Not done

MP Search

Record Status

Sequence Number:

Updated By: unknown

Total:

Patient

Age	<input type="text"/>
Address	<input type="text"/>

Tumour

Incidence date	<input type="text"/>
Topography	<input type="text"/>
Morphology	<input type="text"/>
Behaviour	<input type="text"/>
Basis diagnosis	<input type="text"/>
ICD-10	<input type="text"/>
ICCC code	<input type="text"/>

Run checks

- ▶ Run cross validation by clicking “Run Checks” on the tumour part of the form.
- ▶ The first thing this does is to see if all mandatory variables are present.
- ▶ If so, the cross validations are performed
 - ▶ site and sex, site and morphology, etc.

Results from the cross validation

- ▶ The results are graded:
 - ▶ “OK” means no error found
 - ▶ “Invalid” means that some error were found and the case cannot be confirmed.
 - ▶ Example: woman with prostate cancers
 - ▶ “Rare” means that something suspicious was found and the case can only be confirmed by a supervisor.
 - ▶ Example: some combinations of morphology and topography
- ▶ After everything is OK the case can be confirmed and it will then show up in analysis.

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The browser

- ▶ A look into the “heart” of the CanReg5 program.
- ▶ Choose what table (tumour, patient, source) or combination of tables you want to look at.

The screenshot shows the 'Browse' window of the CanReg5 program. It includes a search interface with the following elements:

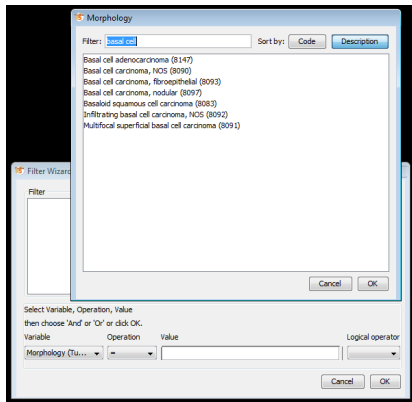
- Table:** 'Tumour (Pat...)' selected.
- Sort by:** 'Incidence date (T...)'
- Records:** '21210' shown.
- Range:** 'Birth date (Patient)' selected, with 'Start' and 'End' fields.
- Filter:** 'AND' selected, with a 'Filter Wizard' button.
- Variables:** 'Key' selected, with buttons for 'Edit/create Patient ID...', 'Mandatory', 'Edit Tumour Record', and 'Personalized'.
- Navigate:** Navigation buttons for previous/next record, first/last record, and refresh.

Below the search interface is a data table with the following columns: RECS, CHEC, AGE, ADDR, INCD, TOP, MOR, BEH, SAS, I10, I9CODE, NPSEQ, MPTOT, UPDATE, ICCC, OBSOLETE.

RECS	CHEC	AGE	ADDR	INCD	TOP	MOR	BEH	SAS	I10	I9CODE	NPSEQ	MPTOT	UPDATE	ICCC	OBSOLETE
1	1	42	74000	19990101	809	8000	3	5	C809		1		20110510	0	
1	1	46	74000	19990101	539	8070	3	7	C539		1		20110510	0	
1	1	63	74000	19990101	492	8830	3	7	C492		1		20110510	0	
1	1	72	74000	19990101	539	8000	3	0	C539		1		20110510	0	
1	1	74	19990101	199	8111	3	7	C199			1		20110510	0	
1	1	76	74000	19990101	619	8010	3	2	C619		1		20110510	0	
1	1	58	74000	19990101	679	8120	3	7	C679		1		20110510	0	
1	1	72	74000	19990102	619	8140	3	7	C619		1		20110510	0	
1	1	60	74000	19990103	619	8140	3	7	C619		1		20110510	0	
1	1	36	74000	19990103	539	8070	3	7	C539		1		20110510	0	
1	1	45	74000	19990104	539	8077	2	7	D069		1		20110510	0	
1	1	62	74000	19990104	679	8120	3	7	C679		1		20110510	0	

Filter the cases

- ▶ Filter by any variable collected.
- ▶ The filter wizard can help you build a filter.



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Import from another CanReg5 system

- ▶ “File”->”Data Entry”->”Import Data”
 - ▶ Click “No” to the question “Do you have all your data in one file?”
- ▶ Choose the files containing the data we exported from another CanReg5 system.
 - ▶ Preview it to see that it looks OK.
- ▶ Associate variables.
 - ▶ CanReg tries to “guess” where to store each variable, but verify to be sure.
- ▶ Go to “Import File”
 - ▶ Click Import - and wait.

After data import

- ▶ Verify number of *tumours* in the database to make sure all cases have been imported.
- ▶ Browse the data to see if you see anything suspicious.
 - ▶ If you do, confirm the existence also in the other CanReg5 system.

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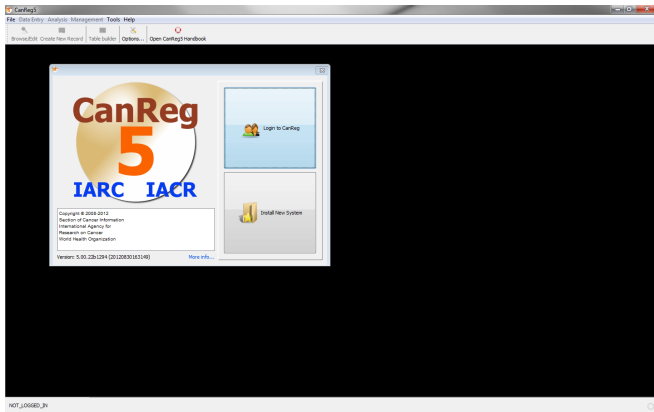
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 - ▶ Interactive code validation
 - ▶ Patient deduplication
 - ▶ Cross validation
 - ▶ Tumour deduplication
- ▶ Browser
- ▶ Import data from another CanReg5 system
- ▶ How to enter population datasets and edit dictionaries in upcoming webinars.

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- ▶ How to enter population datasets and edit dictionaries in upcoming webinars.

Future webinars

- ▶ Next webinars:
 - ▶ 23rd of October, at 14h00.
 - ▶ Theme: Data analysis
 - ▶ 4th of December, at 14h00.
 - ▶ Theme: Customization, etc
 - ▶ Please send suggestions to ervikm@iarc.fr to propose additional topics.
- ▶ Slides and videos will be put online at the GICR website;
<http://gicr.iarc.fr>

For Further Information I



Ervik, Morten

CanReg5 - the handbook
2009-2012

Available online at the IACR web page under software



CanReg5 web page

<http://www.iacr.com.fr/canreg5.htm>



@canreg twitter feed

<http://twitter.com/canreg>