CanReg5 Webinar 5: Data Analysis

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International Agency for Research on Cancer,
Lyon, France

Lyon, France, 22 October 2012

Outline

Frequencies by year

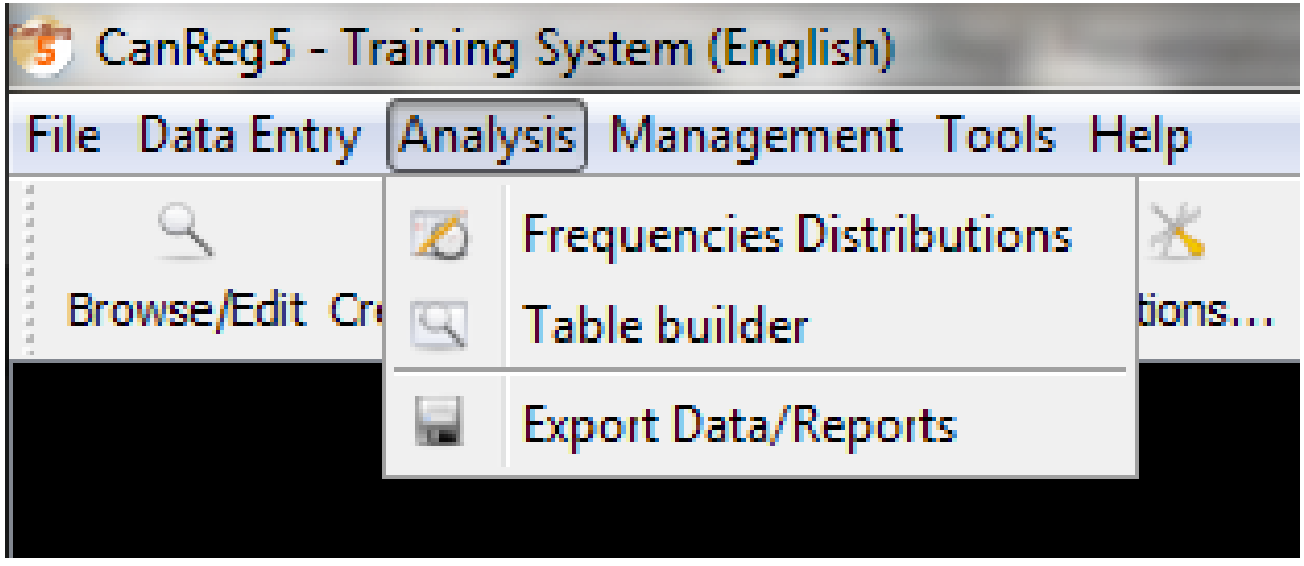
Population Dataset Editor

Table Builder

Export/Report

Live Demo

Summary


CanReg5 - Training System (English)
File
Data Entry
Analysis
Management
Tools
Help
Browse/Edit
Frequencies Distributions
Table builder
Export Data/Reports

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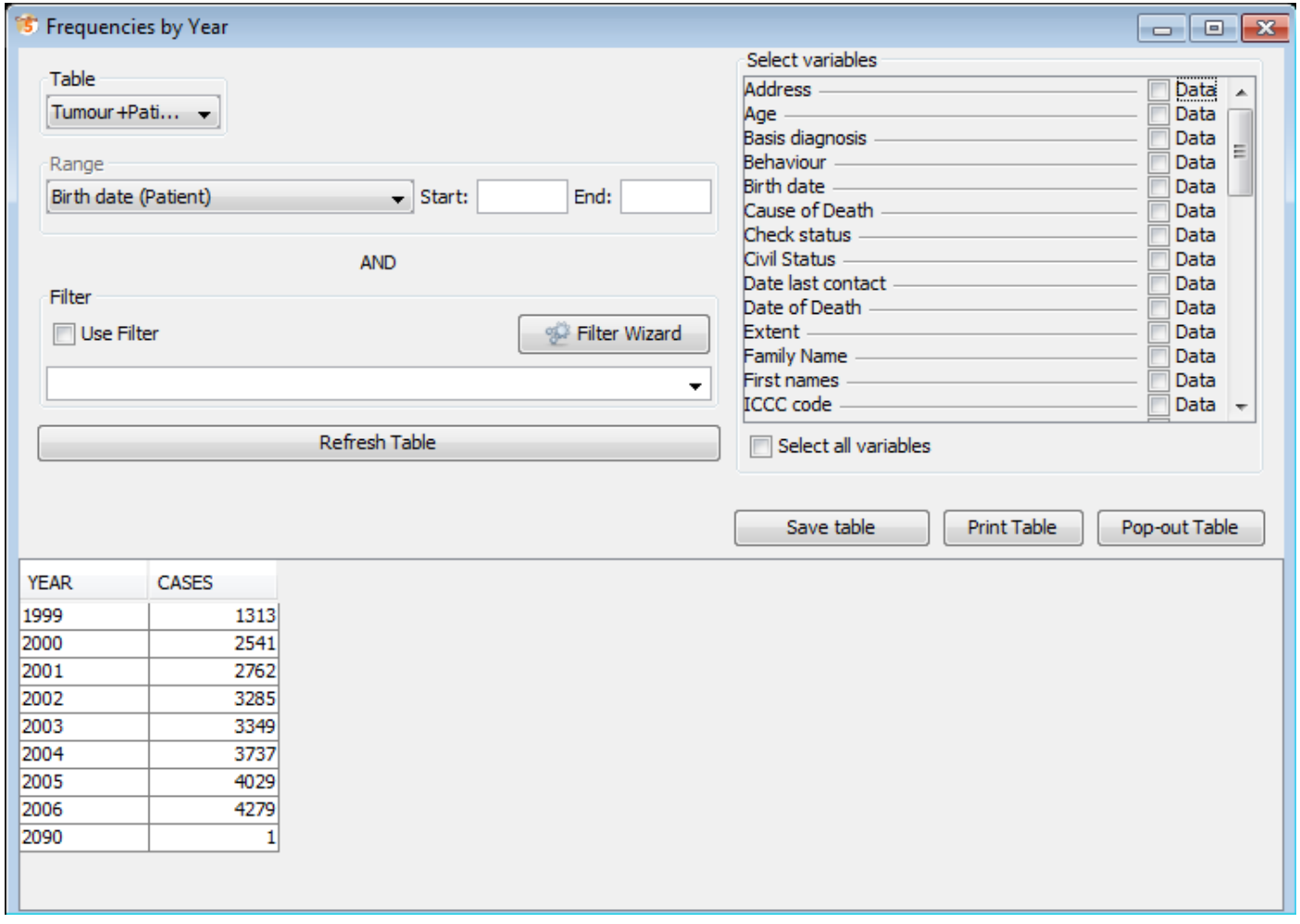
Frequencies by year

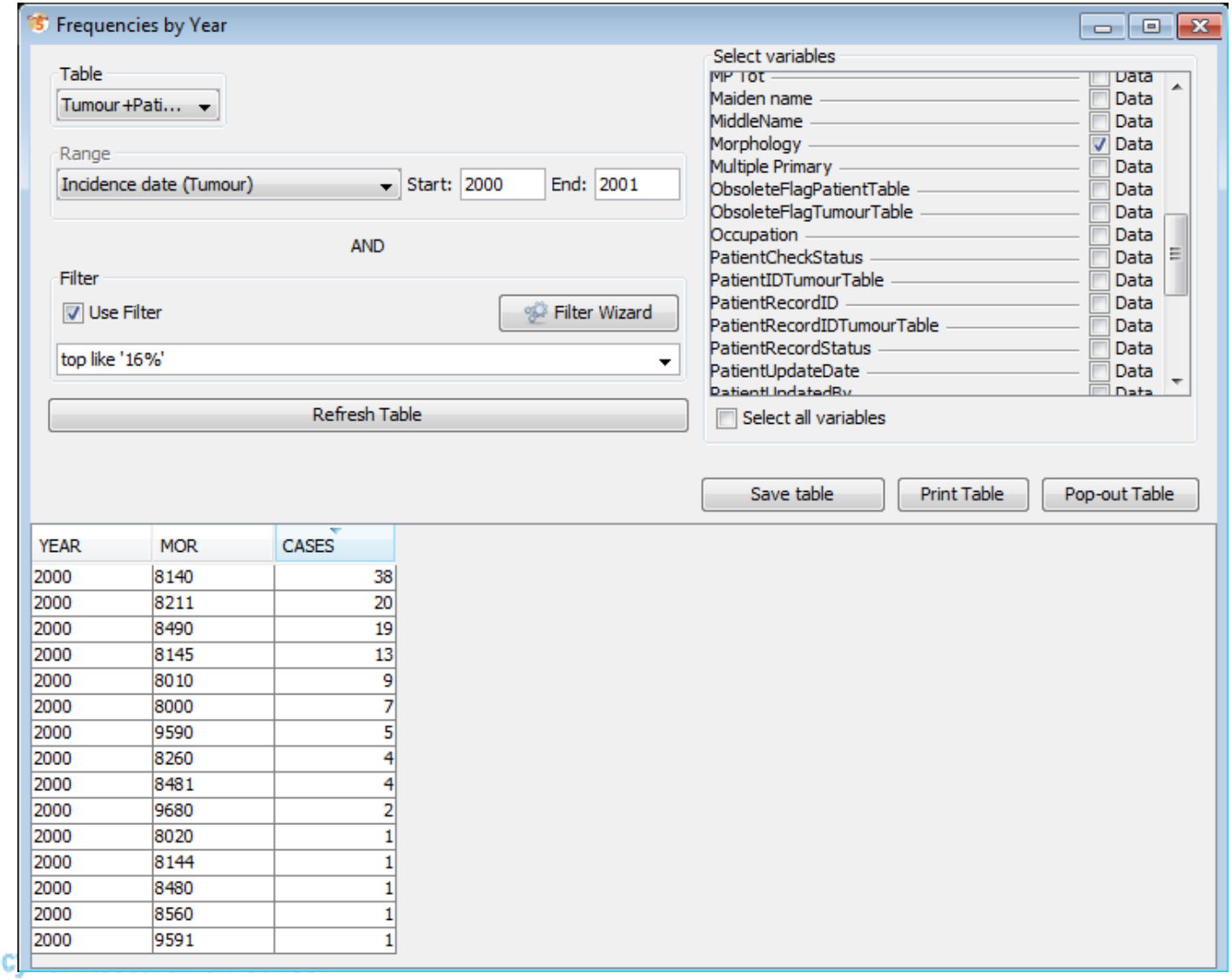
- A tool to count the cases in the database.
- Filter the cases using simple statements
  - Boolean logic
  - Subset of the SQL language
  - Filter wizard to help build filters
- Stratify the results:
  - by any variable
  - by as many variables you need
- Results can be written to files of standard format for post processing in general spreadsheets (Excel, Calc, Numbers), or other tools.

Example: Cases by year



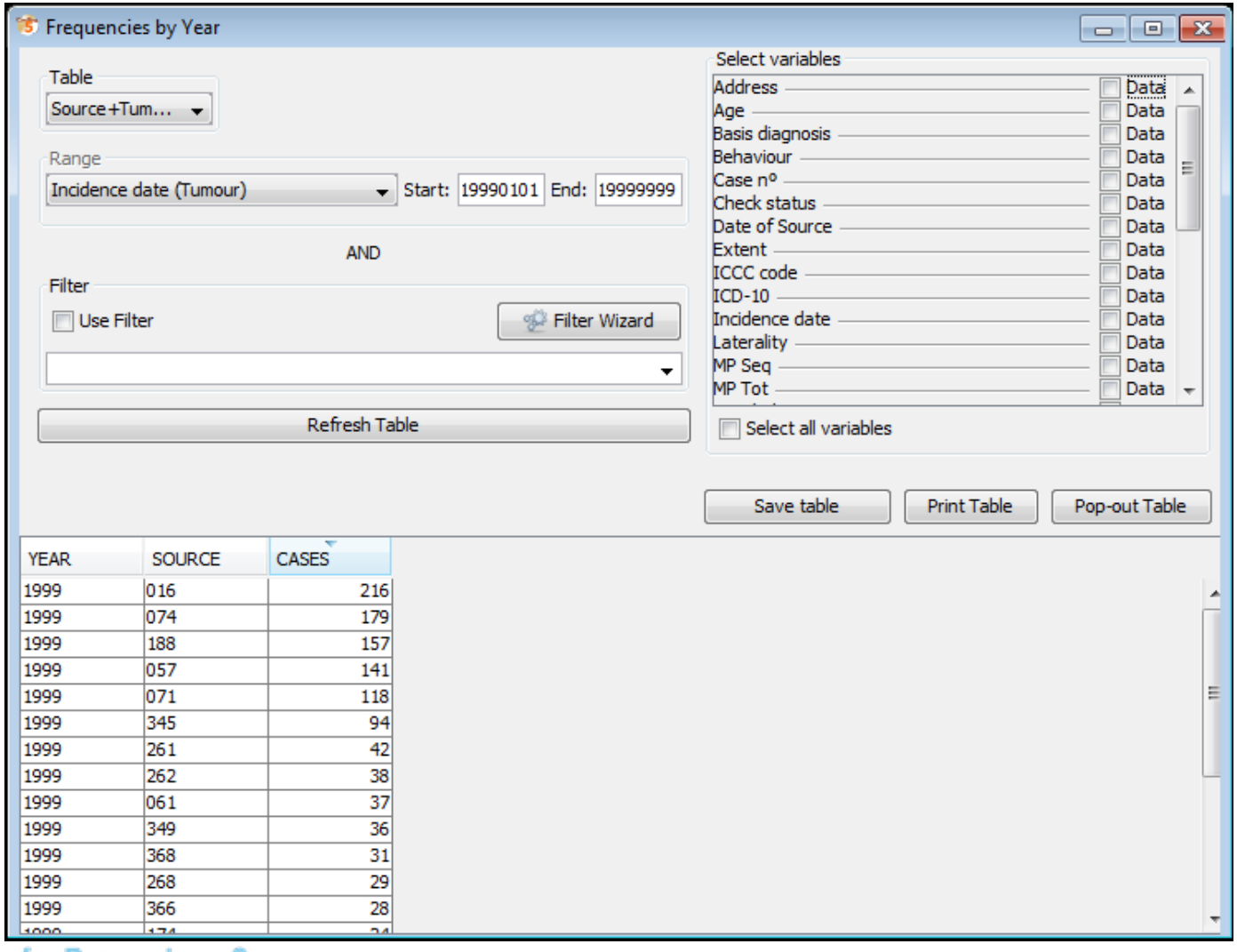
YEAR	CASES
1999	1313
2000	2541
2001	2762
2002	3285
2003	3349
2004	3737
2005	4029
2006	4279
2090	1

Example: Stomach cancers in 2000 by morphology



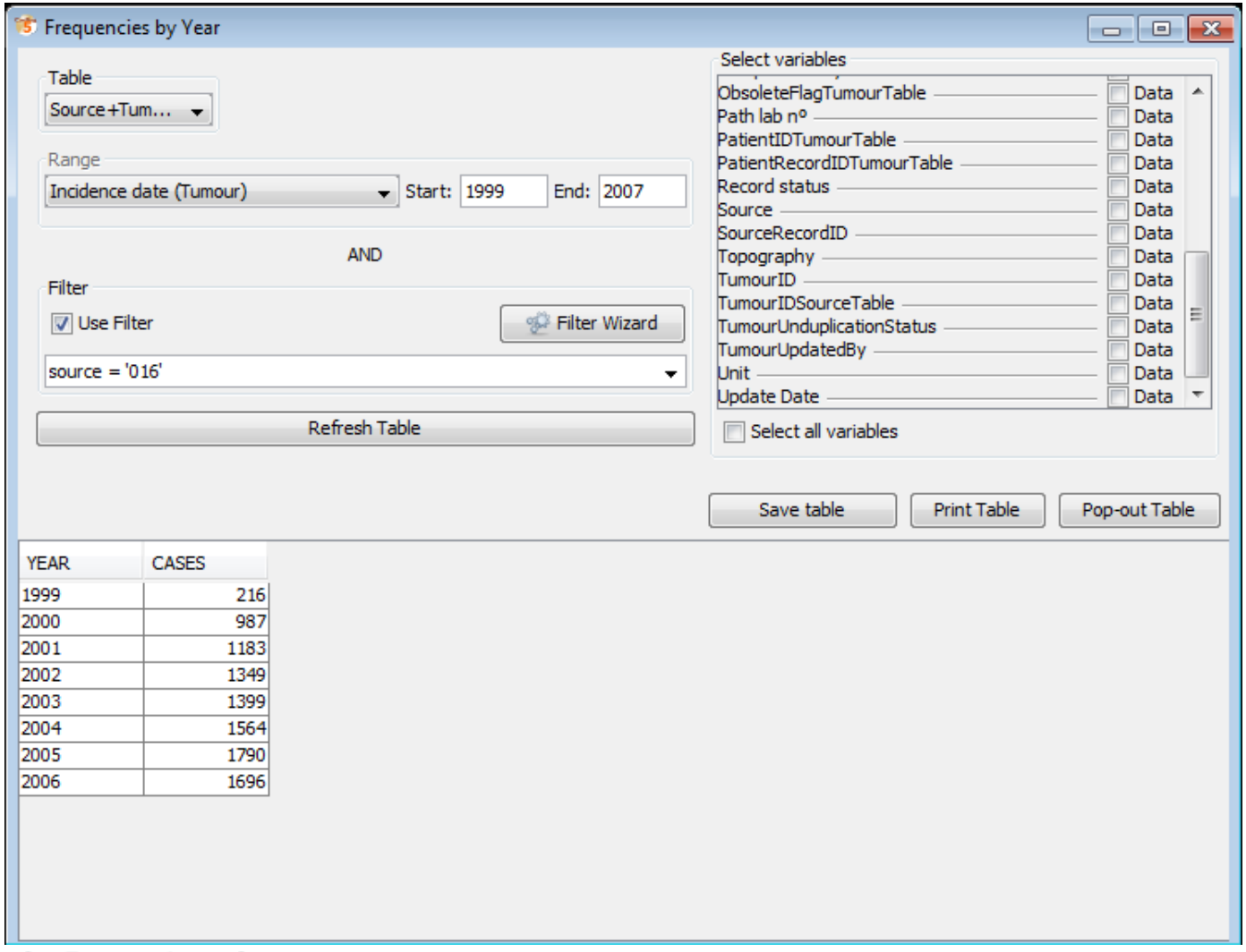
YEAR	MOR	CASES
2000	8140	38
2000	8211	20
2000	8490	19
2000	8145	13
2000	8010	9
2000	8000	7
2000	9590	5
2000	8260	4
2000	8481	4
2000	9680	2
2000	8020	1
2000	8144	1
2000	8480	1
2000	8560	1
2000	9591	1

Example: Sources in one year



YEAR	SOURCE	CASES
1999	016	216
1999	074	179
1999	188	157
1999	057	141
1999	071	118
1999	345	94
1999	261	42
1999	262	38
1999	061	37
1999	349	36
1999	368	31
1999	268	29
1999	366	28

Example: One source over the years



YEAR	CASES
1999	216
2000	987
2001	1183
2002	1349
2003	1399
2004	1564
2005	1790
2006	1696

Outline

Frequencies by year

Population Dataset Editor

Table Builder

Export/Report

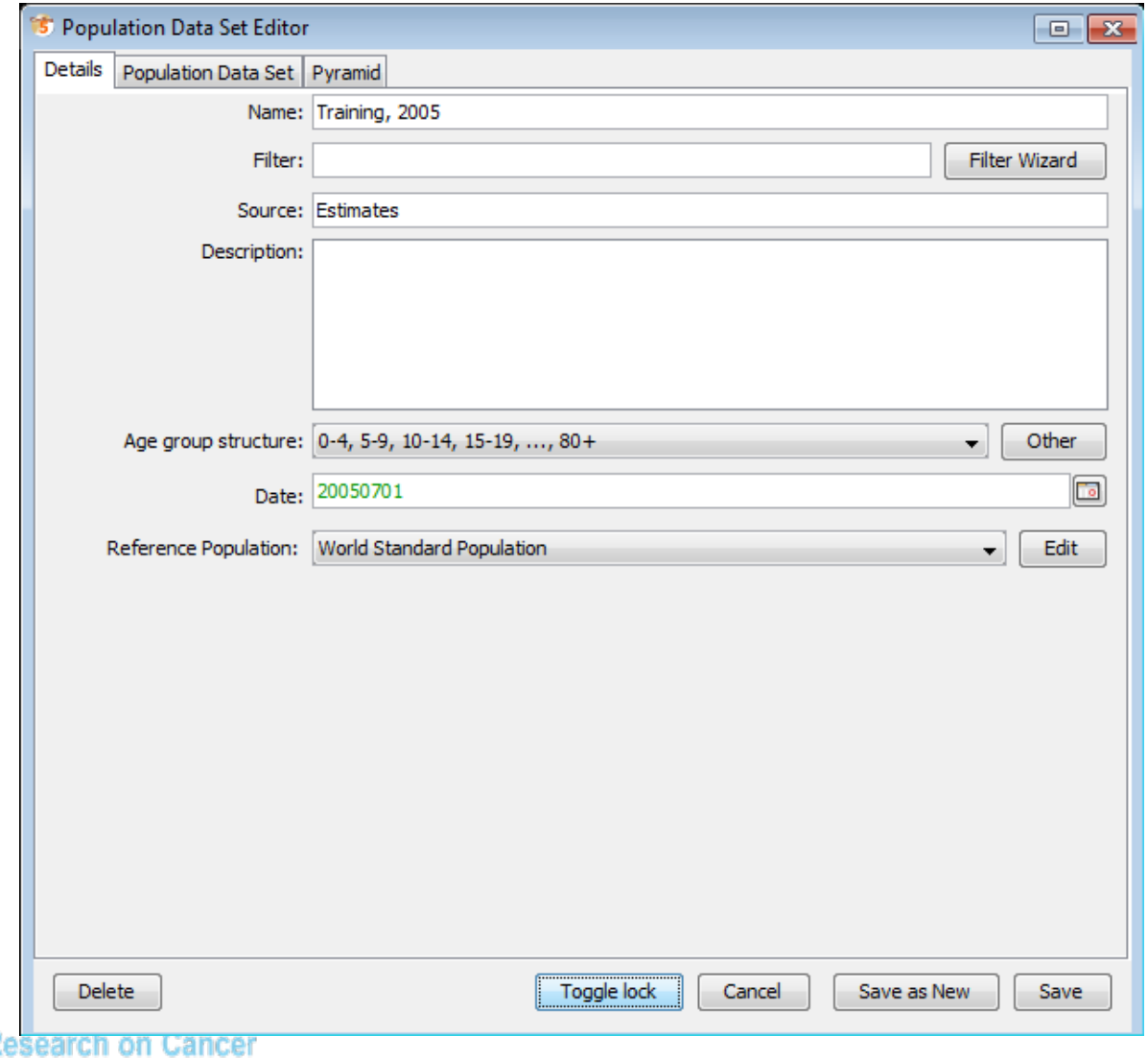
Live Demo

Summary

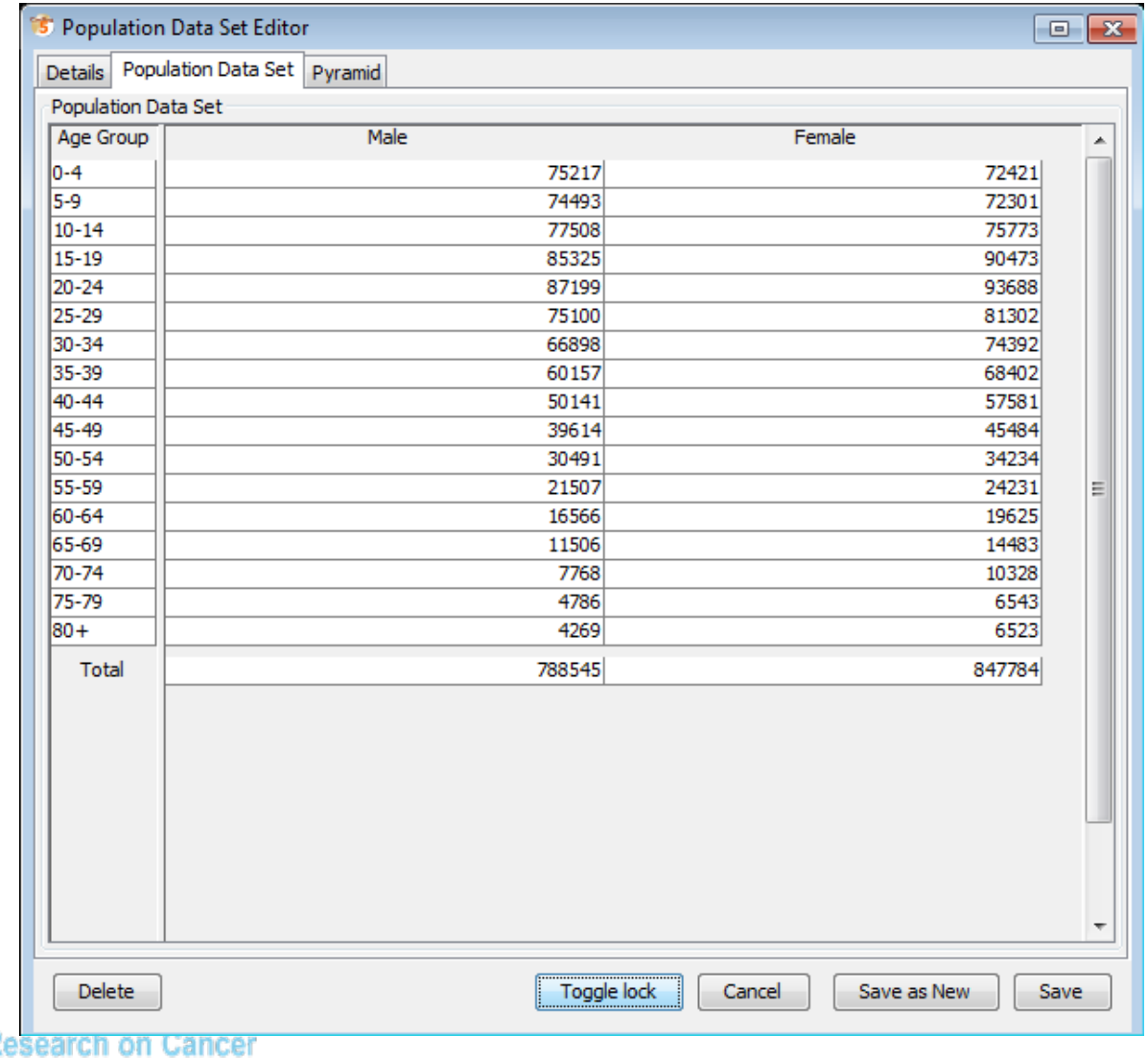
Population Dataset Editor

- Lets you add denominators to your database
- You can store as many as you want:
  - By year
  - Sub-populations (relevant cases automatically picked from the database.)
- Support most age group breakdowns
- Editor supports copy and paste to and from general spreadsheets like Excel

Enter details



Enter data


Population Data Set Editor
Details
Population Data Set
Pyramid
Population Data Set
Age Group
Male
Female
0-4 75217 72421
5-9 74493 72301
10-14 77508 75773
15-19 85325 90473
20-24 87199 93688
25-29 75100 81302
30-34 66898 74392
35-39 60157 68402
40-44 50141 57581
45-49 39614 45484
50-54 30491 34234
55-59 21507 24231
60-64 16566 19625
65-69 11506 14483
70-74 7768 10328
75-79 4786 6543
80+ 4269 6523
Total 788545 847784
Delete
Toggle lock
Cancel
Save as New
Save

Preview the population pyramid to visually check for errors

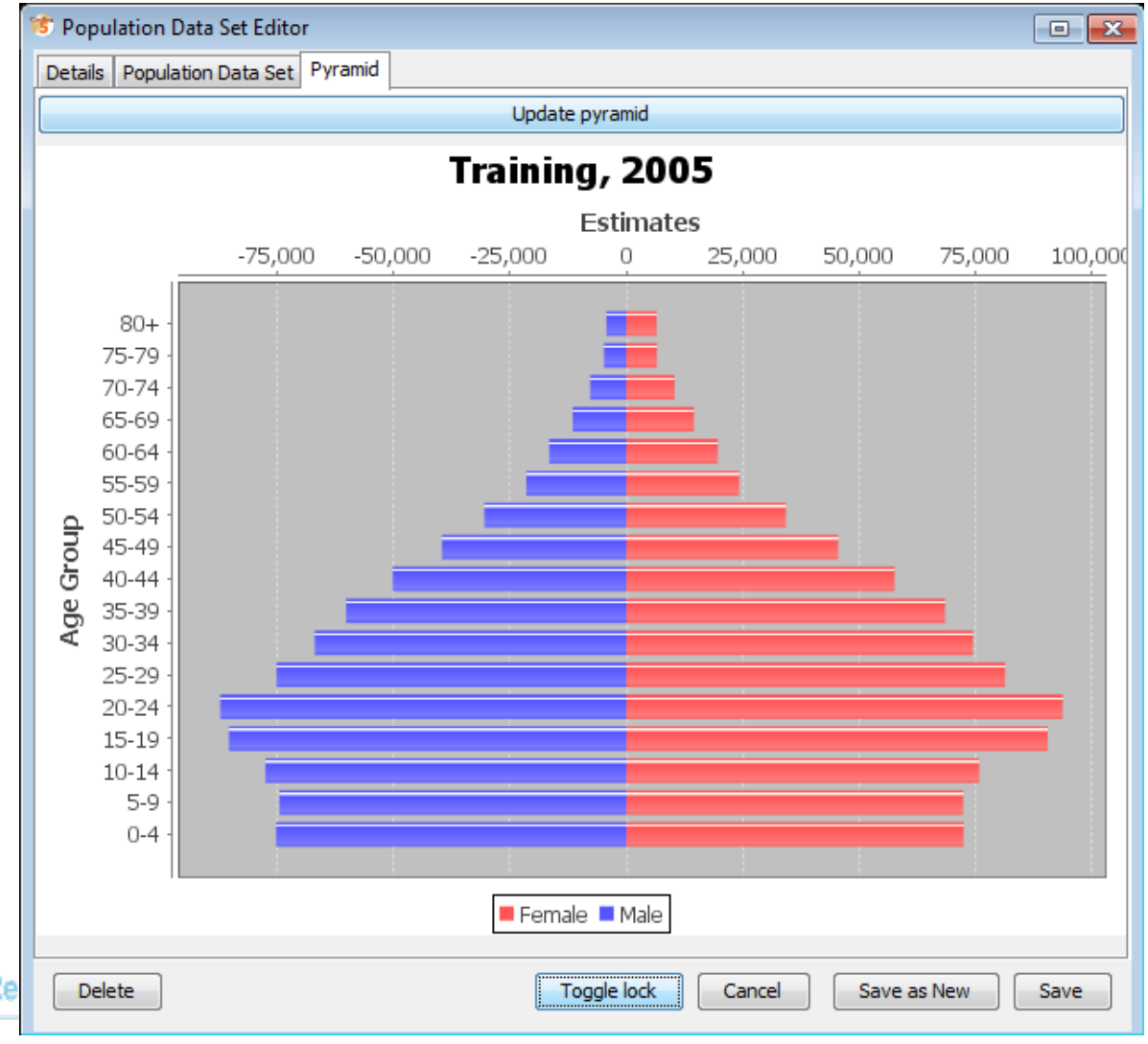


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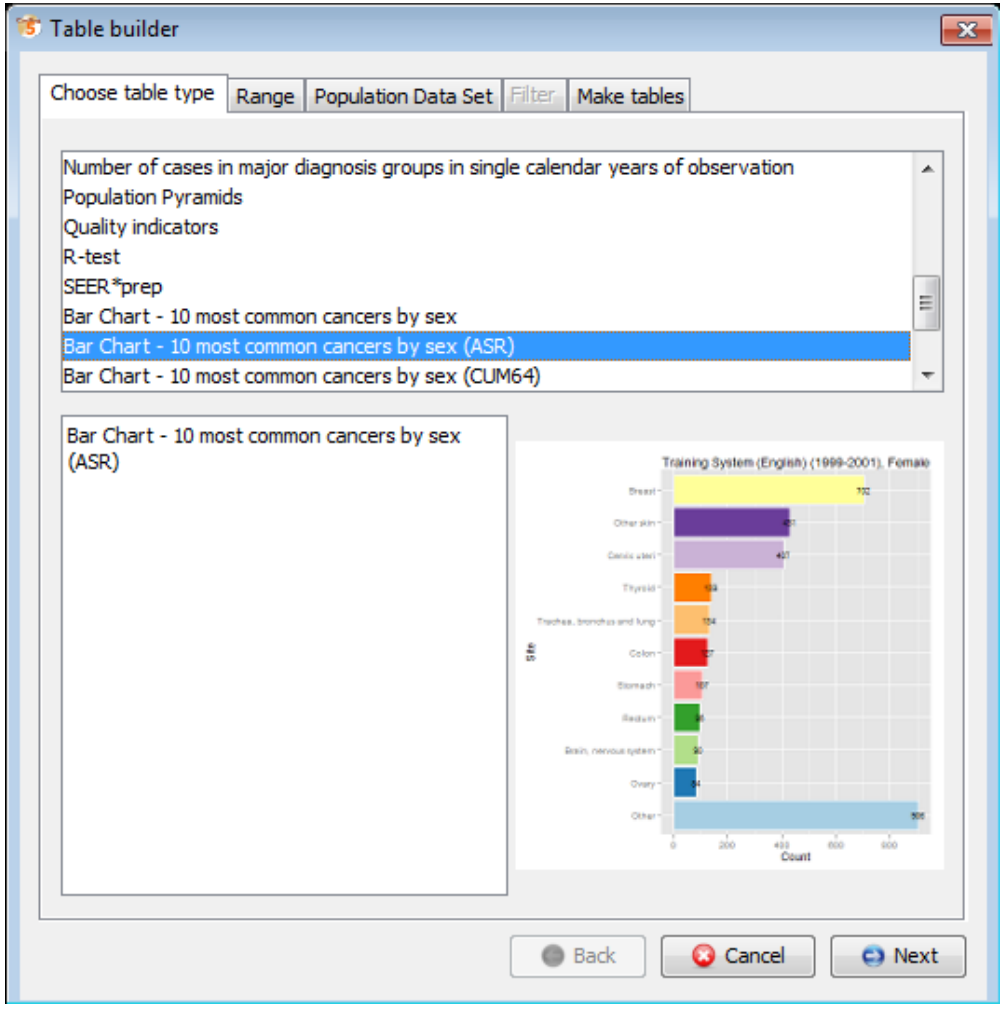
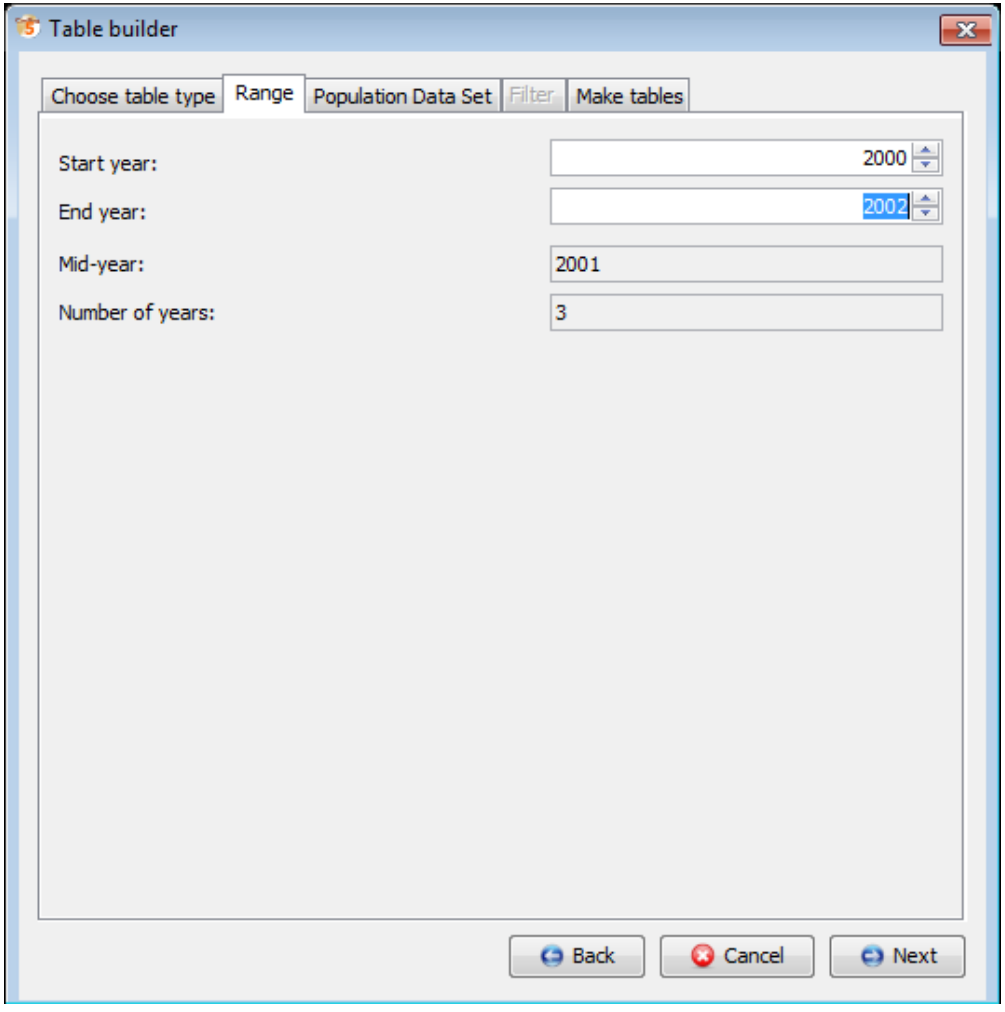
Table builder

- Generate “ready to print” tables.
- A wide range of different types of tables, for example:
  - Incidence tables - rates and number of cases
  - Age specific incidence curves
  - Figures of top 10 cancers by sex
  - Figures of cases by age
  - Population pyramids
- A wide range of output formats:
  - Scalable formats (PDF, PS, SVG)
  - Image formats (PNG, etc.)
- Some tables calls transparently R:
  - Advanced users can write their own R programs that can be called directly from CanReg5.

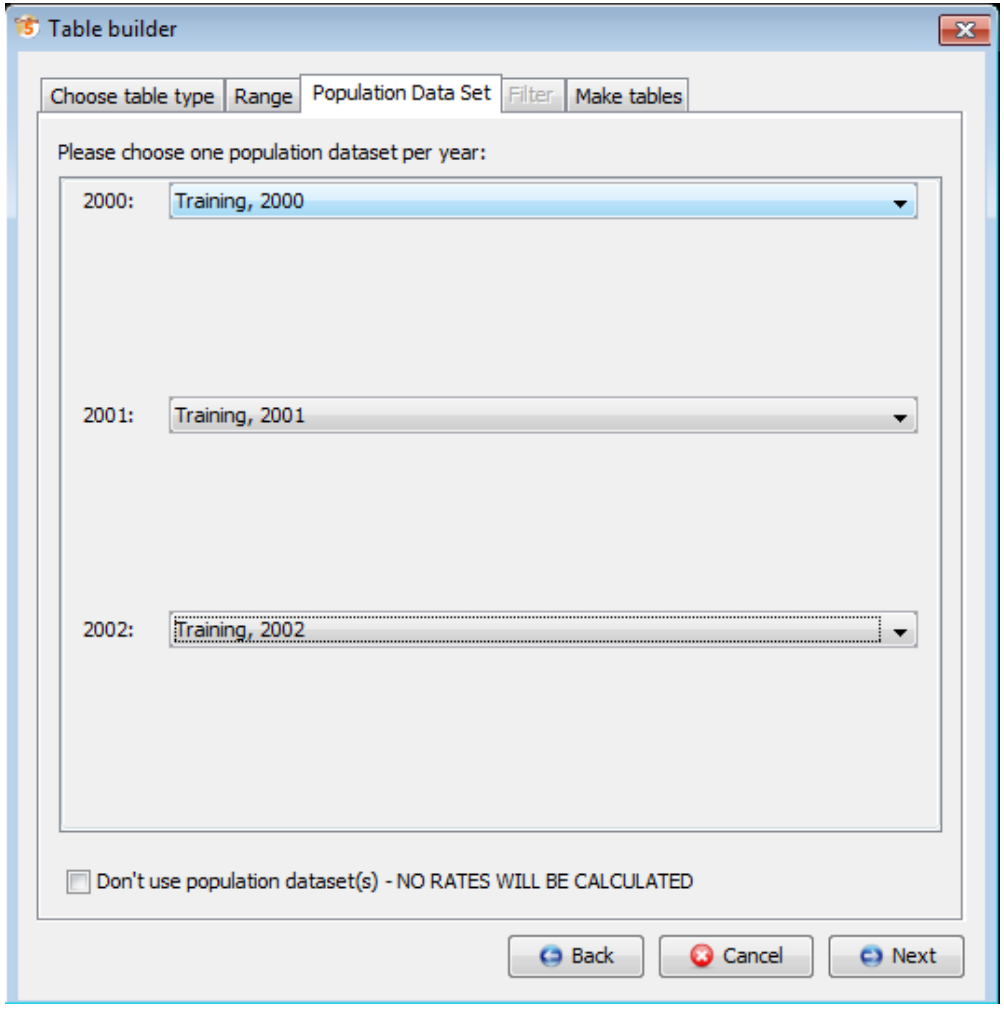
Choose table type



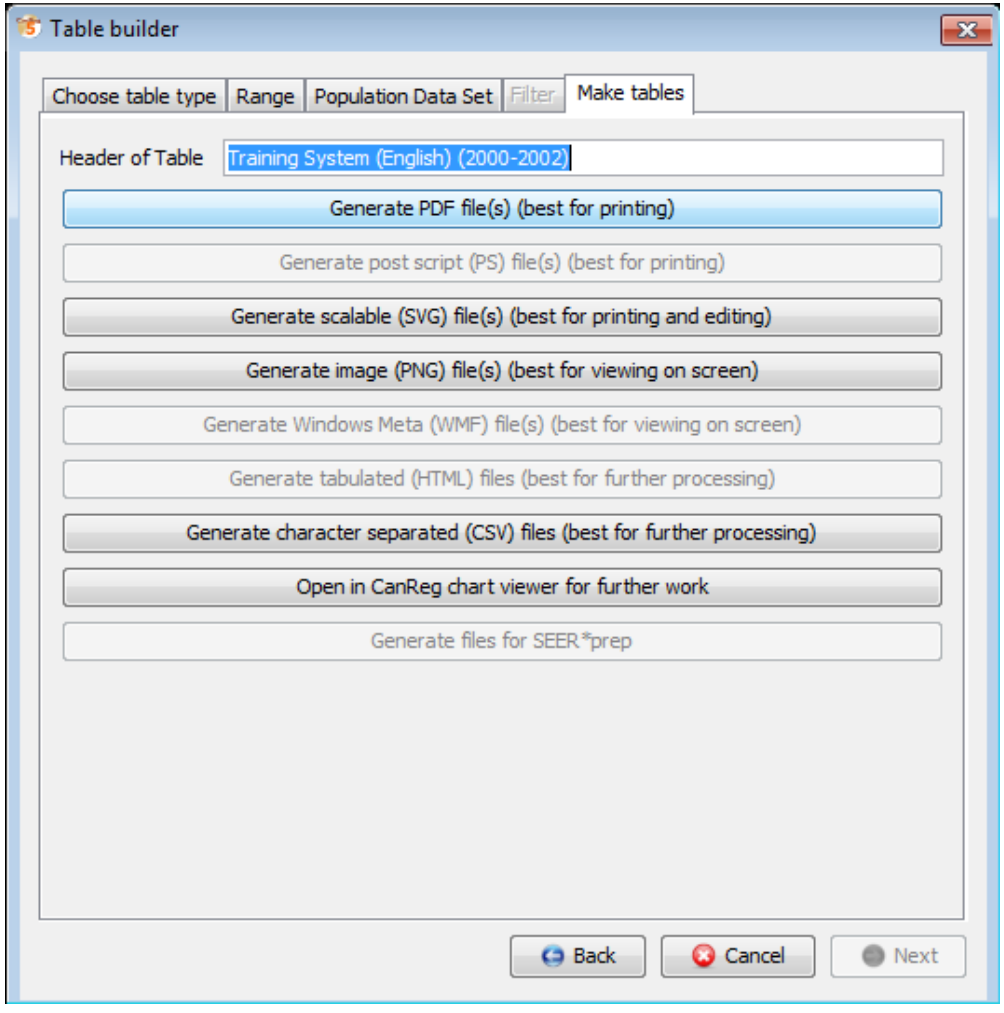
Choose period



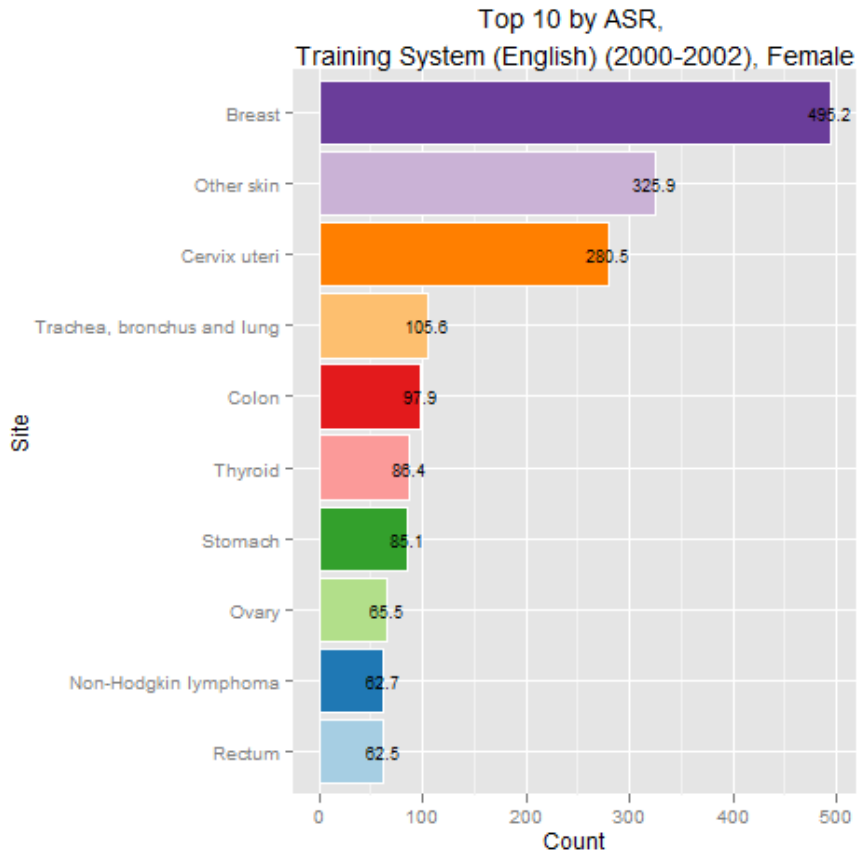
Choose denominators



Choose file format



Results


Top 10 by ASR,
Training System (English) (2000-2002), Female
Site
Breast
Other skin
Cervix uteri
Trachea, bronchus and lung
Colon
Thyroid
Stomach
Ovary
Non-Hodgkin lymphoma
Rectum
495.2
325.9
280.5
105.6
97.9
86.4
85.1
65.5
62.7
62.5
0
100
200
300
400
500
Count

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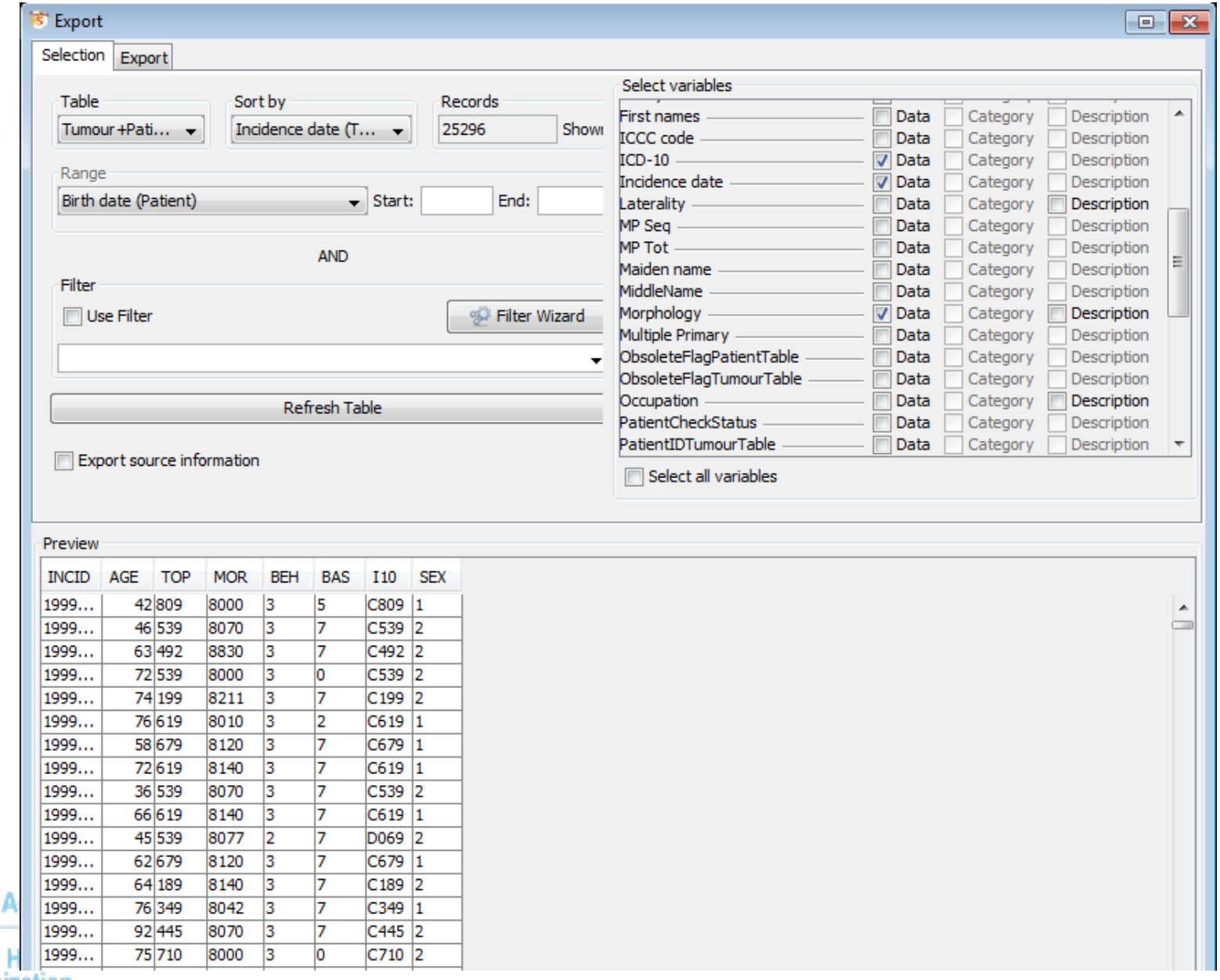
Export/Report

- Export data for further work in other tools, or provide to collaborators
  - individual cases
  - only selected variables (or all)
  - choose to export codes and/or labels/descriptions
  - filter cases as you wish
  - Character separated files compatible with general spreadsheets, like Excel.

Export/Report



INCID	AGE	TOP	MOR	BEH	BAS	I10	SEX
1999...	42	809	8000	3	5	C809	1
1999...	46	539	8070	3	7	C539	2
1999...	63	492	8830	3	7	C492	2
1999...	72	539	8000	3	0	C539	2
1999...	74	199	8211	3	7	C199	2
1999...	76	619	8010	3	2	C619	1
1999...	58	679	8120	3	7	C679	1
1999...	72	619	8140	3	7	C619	1
1999...	36	539	8070	3	7	C539	2
1999...	66	619	8140	3	7	C619	1
1999...	45	539	8077	2	7	D069	2
1999...	62	679	8120	3	7	C679	1
1999...	64	189	8140	3	7	C189	2
1999...	76	349	8042	3	7	C349	1
1999...	92	445	8070	3	7	C445	2
1999...	75	710	8000	3	0	C710	2

International A
World H
Organization

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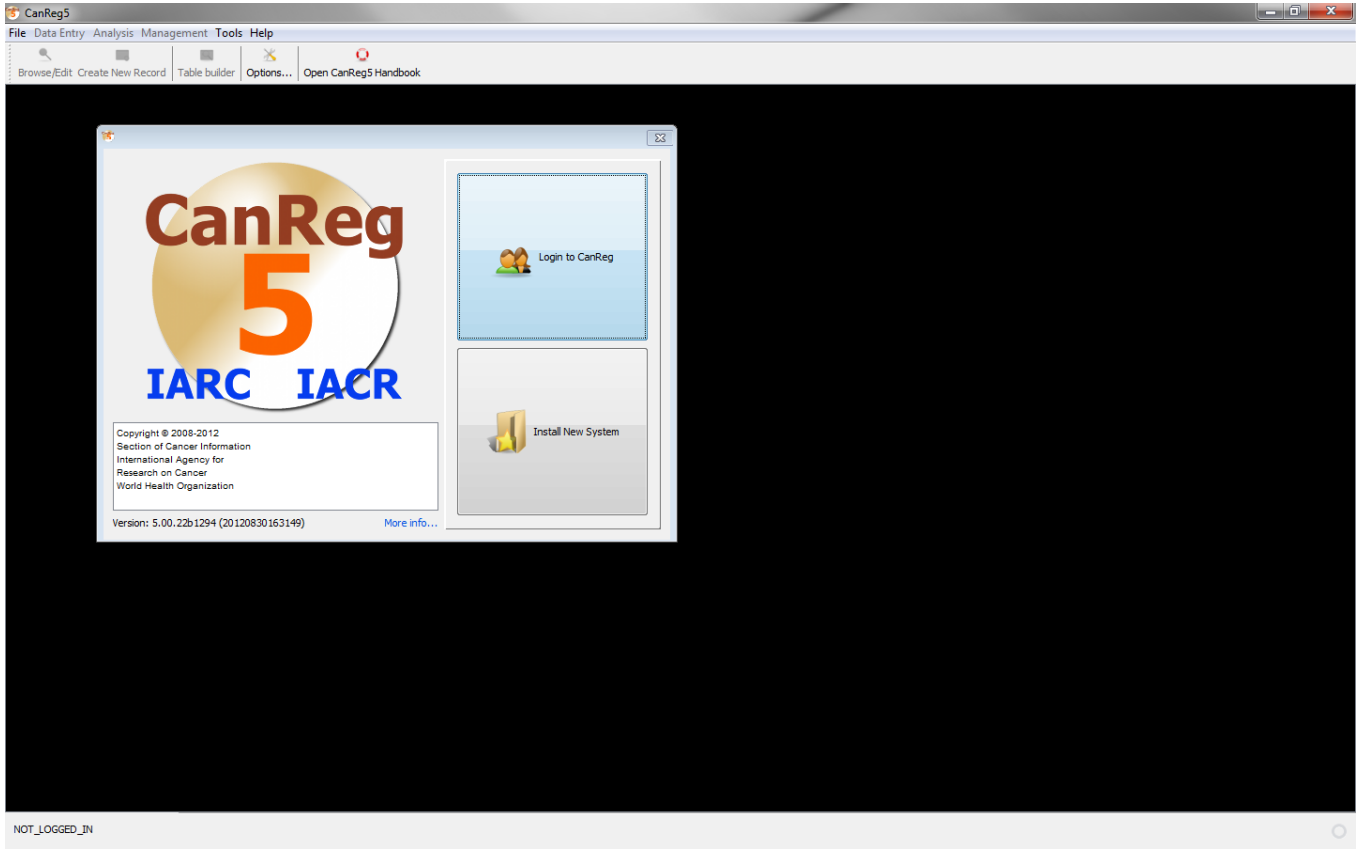
CanReg5
File Data Entry Analysis Management Tools Help
Browse/Edit Create New Record Table builder Options... Open CanReg5 Handbook
CanReg 5
IARC IACR
Copyright © 2008-2012
Section of Cancer Information
International Agency for
Research on Cancer
World Health Organization
Version: 5.00.22b1294 (20120830163149)
More info...
Login to CanReg
Install New System
NOT_LOGGED_IN

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  - For further analysis in other programs

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Future webinars

- Next webinar:
  - Sometime during the first half of December.
    - 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
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