# WHO - FAMILY OF INTERNATIONAL CLASSIFICATIONS NETWORK ANNUAL MEETING 2013



# ICD10 Online in Italian: new perspectives 12 – 18 October 2013 for users, epidemiologists and coders Beijing, China

Capezzuoli A., Grippo F., Saccoccio T., Alicandro G., Frova L., Pace M., D'Angiolini G.

Poster Number WHO/CTS to insert

Istat – Italian National Institute of Statistics

**Abstract** The availability of an updated ICD10 is crucial for research purposes and correct data interpretation. With the intent to provide such a useful tool, the National Institute of Statistics (Istat) disseminated the ICD10 in the newly designed System of the Classifications. In this work the strategies to increase the usability of the ICD10 and the results achieved by disseminating this Classification in a web platform are described.

Introduction	Results
	The analytical classification is displayed as shown in figure 1, allowing the
	consultation of all the needed
reference data vear 2003. Version	information. This tools, together with

Figure 4: Part of results of the search "cancro del polmone" (lung cancer). The system automatically follows the "see also" reported in the the ICD volume III (Cancer, see also Neoplasm, malignant)

2009 is being now used. Nevertheless, the version available for users is based on 1999 WHO updates produced by the Minister of Health as paperback.

In order to provide metadata of CoD documentation and to provide a valid support for coders, Istat made an effort in the dissemination of ICD10 through the newly implemented System of Classifications, a web based tool for browsing classifications used in official statistics.

Methods & Materials

A web application was designed in order to navigate the ICD10 and provide all the useful information for coding: hierarchic structure of the information. This tools, together with the additional information box (Figure 2), allows the user to have the complete information about the codes.

Figure 2: Additional information box contains all the information about the selected code. The user is redirected to the appropriate code by clicking on ICD10 codes mentioned in the "exclude" or somewhere else in the text

E00 - Sindrome da carenza di iodio congenita

Utilizzare un codice aggiuntivo (F70-F79) se si desidera identificare un ritardo mentale associato.

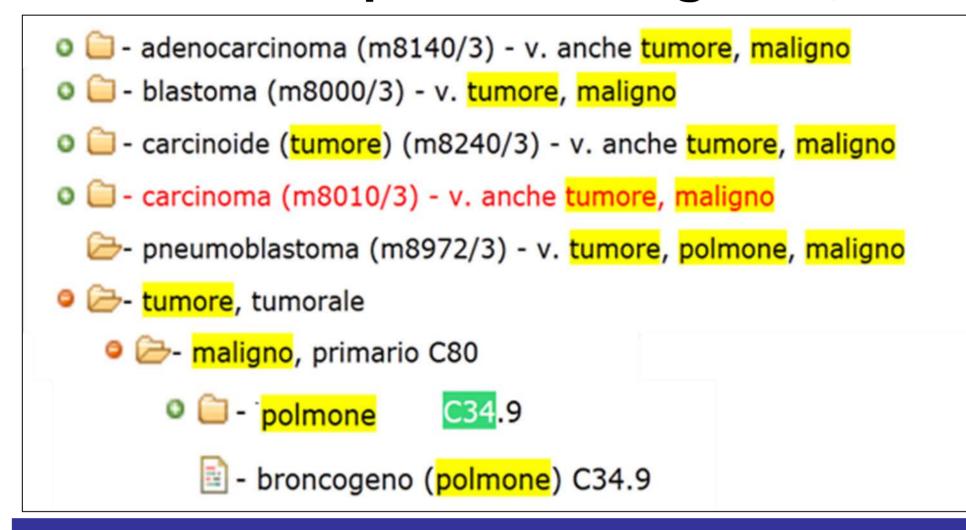
#### INCLUDE

condizioni morbose endemiche associate a carenza di iodio nell'ambiente, sia direttamente che come conseguenza di
deficit di iodio della madre. Alcune delle suddette condizioni non si associano ad ipotiroidismo in atto, ma sono conseguenti ad
una inadeguata secrezione di ormone tiroideo durante lo sviluppo fetale. Possono essere associate a sostanze gozzigene
presenti nell'ambiente.

#### ESCLUDE

ipotiroidismo subclinico da carenza di iodio (E02)

The search tool on the index is based on approximately 53 thousands terms. The power of the search is increased by the use of a system of synonyms (see and see also of ICD Vol III), and string standardization procedure. In order to direct the user in the better visualization of the many terms generated by the search, these are organized in the same way of the Volume III of the ICD10 (index) showing the results grouped by lead terms and indent. This view results to be very suitable for coding purposes (figure 3 and 4).



### Conclusions

The ICD10 Online in Italian represents an essential tool for documenting statistics based on this Classification. The possibility of keeping updated the ICD together with the powerful integrated search tool, allows the use for coding purposes. Finally, the availability of the Online Classification is an opportunity for implementing the ICD10 in new fields.

classification, inclusions, exclusions, dagger/asterisk codes.

Moreover, a module for the string search has been developed, based both on the Volume I and the Volume III. In this module, a system of string standardization and synonyms has been implemented in order to return the largest number of search results and the minimum number of false positive results.

All the information needed for the ICD (figure 3 and 4). consultation as well as the WHO updates up to 2009 were entered in a specific database compatible with Istat system of classifications. **Figure 3** and 4). **Figure 3** and 4). **Figure 3** and 4).

Figure 1: Browsing the ICD10 in the Istat System of Classifications

Figure 3: Results of the search of the term "infarto" (infarction). The 230 terms containing this string are displayed grouped as in ICD10 volume III, allowing the user to follow the correct lead term and indents

# Acknowledgements

This activity has been performed in the framework of the Istat working group of System of Classifications. ICD10 updates and data entry managed by research assistants of "mortality analysis and nosologic classification" unit of Istat.

## References

WHO. Classificazione statistica internazionale delle malattie e dei problemi sanitari correlati . Decima revisione. 3 voll. A cura del Ministero della Sanità. Roma, 2001

WHO. List of Official ICD-10 Update. http://www.who.int/classifications/icd/i

#### Sistema Classificazioni Sistema informativo delle Classificazioni ufficiali

Istat

RAMON

- A00-B99 Alcune malattie infettive e parassitarie
- C00-D48 Tumori
- D50-D89 Malattie del sangue e degli organi ematopoietici ed alcuni disturbi de (D50-D89)
- E00-E90 Malattie endocrine, nutrizionali e metaboliche E00-E90
  - E00-E07 Disturbi della tiroide (E00-E07)
    - E00 Sindrome da carenza di iodio congenita
    - E00.0 Sindrome da carenza di iodio congenita di tipo neurologico
    - E00.1 Sindrome da carenza di iodio congenita di tipo mixedematoso
    - E00.2 Sindrome da carenza di iodio congenita di tipo misto
    - E00.9 Sindrome da carenza di iodio congenita non specificata

- o 🗀 accidente
- Image: Image:
- Image: Optimized apoplessia, apoplettico(a)
- attacco, attacchi (v. anche convulsioni)
- Cardioressi (v. anche infarto, miocardio)
- o 🧰 coagulo (sangue) v. anche ambolia
- Complicanze (da) (di)
- o ifetto, difettoso(a)
- embolia, embolismo (settica(o))
- emopericardio
- o 🧰 gravidanza (singola) (uterina)
- Infarto, infarcimento (di)
  - arteria coronaria (v. anche infarto, miocardio) I21.9
  - cardiaco (v. anche infarto, miocardio) I21.9
  - Cerebellare (v. anche infarto, cerebrale) I63.9
    - embolico 163.4

### cd10updates/en/

WHO. Icd10 version 2010:

http://apps.who.int/classifications/icd1 0/browse/2010/en

Istat – Sistema delle classificazioni. http://sistemaclassificazioni.istat.it

Portale Italiano delle Classificazioni: http://www.reteclassificazioni.it

# DIGITAL, MOBILE, NOW!

Scan this to get a digital version

