

# Q-Codes

## From Dunedin 2007 to Hyderabad 2015

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# I speak here only of the Q-Codes

- The full project is called 3CGP (for Core Content Classification in GP/FM)
- A mix of ICPC and Q-Codes
- ICPC for clinical issues
- Q-Codes for GP/FM main issue in management
- Gaetan Kerdelhue (Terminologist - Rouen) has worked on MeSH / ICPC mapping
- Please see <http://docpatient.net/3CGP>

## Discovering 3CGP (ICPC + Q-Codes) / Q-Codes story

[Access HETOP](#) → [Discover HETOP](#) → [Q-Codes story](#) → [Discover ICPC-2](#) → [Discover Q-Codes](#) → [Coding with 3CGP](#) → [3CGP coding use cases](#)

### Q-Codes story

In memoriam

Prof. Dr. H. Lamberts († 27 December 2008)

Core Content Classification in General Practice Family medicine is a system of classification mixing the International Classification of Primary Care and the Q-Codes.

At the Department of General Practice, directed by the late Prof. Dr. Henk Lamberts, University of Amsterdam, in the 80', the burden of reading medical journals specific to general practice was devoted to teachers and assistants in the department. Articles relevant to symptoms, process and diagnoses (ie clinical items) were indexed by ICPC, the International classification of Primary Care and non-clinical subjects were by Q-Codes. Using the letter Q, available in ICPC, Prof. Henk Lamberts had opened this new category. This was before the Internet, before Medline become available on CD Rom. To our knowledge this list Q-Codes has never been published but a copy, taken on the tables of the library of the department in 1987, has been preserved. We see in Figure 1 the first list of Q-Codes proposed by Prof. H. Lamberts, also linchpin of development of ICPC in the Wonca International Classification Committee, the Wonca working group in classification field.

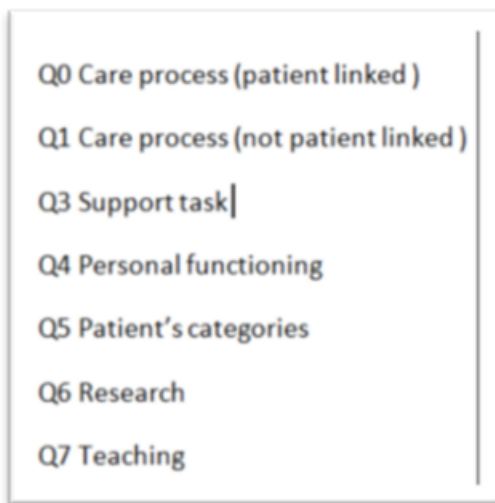


Figure 1 Q-CODES Amsterdam (+/- 1987)  
Dep of gen practice. Prof Lamberts

# A table of content fort GP/FM?

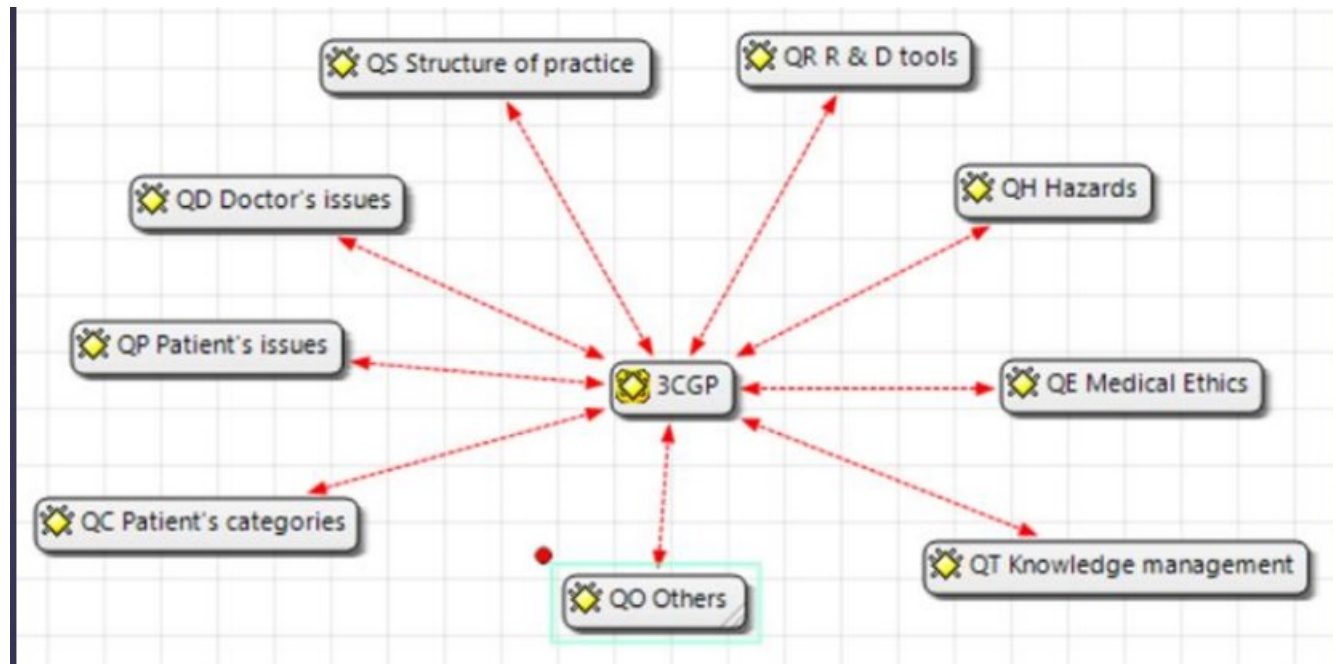
- GP/FM definitions exists
- Also numerous textbooks
  - ❖ All with more or less the same clinical items
  - ❖ And non-clinical items
  - ❖ They are all different
- Wonca Europe has 20.000 abstracts online
  - ❖ Without indexation system

# Elaboration of an authority list

- Qualitative analysis of 1600 abstracts in GP/FM
- Progressively from 2007 to 20015
- Concepts identification
- In computer sciences ; **Text Classification**
- This is also done by machines : NLP and ontologies

# I was willing to know the content of my job

- 183 concepts
- Some missing
- 8 categories and one categorie « other »
- 7 languages ; en / fr / es / pt / nl / vn / tr (soon Italian ?)



# I have been able to study their terminological and conceptual content

- HETOP Interface ([www.hetop.eu](http://www.hetop.eu))
- Database graphic interface DBGUI
- Automatic and curated mappings to more than 50 Hetop terminologies
- Identification of MeSH (if any) and Entry terms
- Search for conceptual content
- Search for Full Free Access publications
- Correspondances on Babelnet & Dbpedia
- On year work
- Revision ongoing
- Project to map to DeCS (PAHO Sao Paulo)

Runbox

CISMeF DBGUI

← → ↺ 🏠

https://bocismef.chu-rouen.fr/dbguiVaadin/?winst=1415111987286&of=0&of=2488613

Applications

www.cidmef.u-...

<b>Former aux...

Sci

CISMeF DBGUI

CISMeF Q-code

DE

Edit Resource CGP\_QC\_QT51 (QT51 sentinel

⏮ ⏭

Edit Display Options

New

Apply

Apply and close

Undo

Previous

1 / 2

Next

Notice courte

Notice longue

Origin ID

Preferred Label

3-CGP entry term

CISMeF synonym

3-CGP acronym

3-CGP conceptual content

CISMeF acronym

QT51

sentinel network	en
red centinela	es
réseau sentinelle	fr
rede sentinela	pt
	en
	en
	en
SENTINEL PRACTICE a general practice which undertakes to maintain surveillance of and report certain health problems such as adverse drug reactions or other notifiable health events.(Woncadic)	en
Population Surveillance ; Ongoing scrutiny of a population (general population, study population, target population, etc.), generally using methods distinguished by their practicability, uniformity, and frequently their rapidity, rather than by complete accuracy (MeSH)	en
Sentinel Surveillance; Monitoring of rate of occurrence of specific conditions to assess the stability or change in health levels of a population. It is also the study of disease rates in a specific cohort such as in a geographic area or population subgroup to estimate trends in larger population. (From Last,	en
	fr
	en

Example of Q-Code QT51 on DBGUI



Description

Hierarchies

Relations

PubMed / Doc'CISMeF

Resource consulted 21 times

See all languages




## Origin ID


QT51


## Preferred Label

 sentinel network

## 3-CGP conceptual content

 SENTINEL PRACTICE a general practice which undertakes to maintain surveillance of and report certain health problems such as adverse drug reactions or other notifiable health events.(Woncadic)

 Population Surveillance ; Ongoing scrutiny of a population (general population, study population, target population, etc.), generally using methods distinguished by their practicability, uniformity, and frequently their rapidity, rather than by complete accuracy (MeSH)

 Sentinel Surveillance; Monitoring of rate of occurrence of specific conditions to assess the stability or change in health levels of a population. It is also the study of disease rates in a specific cohort such as in a geographic area or population subgroup to estimate trends in larger population. (From Last, Dictionary of Epidemiology, 2d ed) (MeSH)

## Référence bibliographique

<http://www.ncbi.nlm.nih.gov/pubmed/15113496>

<http://www.ncbi.nlm.nih.gov/pubmed/19758977>

<http://www.ncbi.nlm.nih.gov/pubmed/25670886>

<http://www.ncbi.nlm.nih.gov/pubmed/25670886>

## UMLS CUI

C0242791

## BabelNet link

[bn:00051975n](http://babelnet.org/00051975n)

## Wikipedia link

[http://en.wikipedia.org/wiki/R%C3%A9seau\\_Sentinelles](http://en.wikipedia.org/wiki/R%C3%A9seau_Sentinelles)

## Wonca theme

Runbox x CISMef DBGUI x CISMef HeTOP - q (Q Q-code x

hetop.eu/hetop/#n=500&lang=en&objti=T\_DESC\_3CGP\_QCODE&q=q

Applications www.cidmef.u-... <b>Former aux... Sci G M TE P CISMef DBGUI CISMef Q-code DECS PH3C

[CISMef](#) [About](#) [Medical sites and documents](#) [Health terminologies](#) [Other tools](#) [My account](#)

# HeTOP

1 matches in 0,57 s ★★★★★

Terminologies selection

Your queries (1)

Views history (2)

## Results

[-] Q-Codes (1)

[-] Q-code (1)

→ Q Q-codes

Description

**Hierarchies**

Relations

Pub

## Q Q-codes (Q-code)

[-] Q Q-codes

+ QC patient's category

+ QD family doctor's issue

+ QE medical ethics

+ QH ecological hazard

+ QO other

+ QP patient issue

+ QR research & development

+ QS structure of practice

+ QT knowledge management in health care

Terminologies selection

Your queries (1)

Views history (2)

**Results**

Q-Codes (1)

Q-code (1)

→ Q Q-codes

Description	Hierarchies	Relations	PubMed / Doc'CISMeF
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## Q Q-codes (Q-code)

Resource consulted 547 times [See all languages](#)

Origin ID

Preferred Label

 **Q-codes**

ClSMcF synonym

 Chapter Q of 3CGP.

3-CGP acronym

- AAFP : American association of Family Physician policies
- ECHO : Medical supplies and equipment for primary health care
- A practical resource for procurement and management
- Howie & all 2004 : Howie JGR, Heaney D and Maxwell M.

Howie & all 2004 ; Howie JGR, Heaney D and Maxwell M. Quality, and core values and the general practice consultation: issues of definition, measurement and delivery. *Family Practice* 2004; 21: 458-468.

 NIEH gloss: National Institute of Environmental Health Sciences  
 Glossary of Commonly Used Terms in Research Ethics  
 Woncadic; Wonca Dictionary of General Family Practice 2003

3-CGP conceptual content

Collection of descriptors encompassing specific centers of interest of family doctors identified in abstracts of communications during congresses of family doctors. To be completed. In association with ICPC-2 they form 3CGP, Core Content Classification in General Practice/Family medicine. 3CGP allows to index probably most of family doctor's gray literature. Work in progress

### Référence bibliographique

<http://apps.who.int/medicinedocs/documents/d28282en/d28282en.pdf>

<http://effectivehealthcare.ahrq.gov/index.cfm?option=glossary&keyword=>

<http://reliefweb.int/sites/reliefweb.int/files/resources/4F9043C28E33C7C>

<http://www.iime.org/glossary.htmhttp://www.ncbi.nlm.nih.gov/mesh/>

<http://www.ph3.co.uk/PH3CIdosa/27/000092/0000052.pdf>

<http://browser.ihtsdo.org/?winst=1418282410849&of=0&of=248>

<http://prints.ston.ac.uk/2817294/abstract.pdf>

<http://srm.sagepub.com/view/enyclopedia-of-survey-research-meth>

<http://www.ira.infile.site/pages/dictionary.pdf>

<http://www.niehs.nih.gov/research/resources/bioethics/glossary/index>

[http://docs.bvs.briqi-bin/winst1800.exe?decserver?1?isScript\\_Loqi-bin](http://docs.bvs.briqi-bin/winst1800.exe?decserver?1?isScript_Loqi-bin)

[http://dicapatient.net/3C3GP/Q-codes\\_4\\_languages.pdf](http://dicapatient.net/3C3GP/Q-codes_4_languages.pdf)

<http://eric.ed.gov/?q=allhttp://www.aap.org/about/policies/a-z.html>

<http://flora.oxfordjournals.org/content/21/4/458.full.pdf>

<http://www.abo-dio.com/ODUS/odlis.aspx>

<http://www.kitn.no/upload/2705/ICPC-2-English.pdf>

Wikipedia link

<http://docpatient.net/3CGP>

## Abbreviations

terminologies  
online

## Online sources

## Q Q-codes (Q-code)

### Q Q-codes

#### QC patient's category

- QC1 age group
- QC2 gender issue
- QC3 social high risk
- QC4 addict
- QC5 victim of violence
- QC6 survivor

#### QD family doctor's issue

- QD1 communicator
- QD2 doctor as carer
- QD3 care manager

QD31 health risk management

QD32 health issue management

QD33 health status assessment

QD34 multimorbidity

QD35 genetic issues

#### QD4 clinical prevention

#### QD5 complementary medicine

QD6 medico legal issue

QD7 professional image & identity

QD8 health provider personal life

#### QE medical ethics

#### QH ecological hazard

#### QO other

#### QP patient issue

#### QR research & development

#### QS structure of practice

#### QT knowledge management in health care

an example



multimorbidity



multimorbilidad



multimorbidité



multimorbiditeit



multimorbidade

# QD34 multimorbidity (Q-code)

Resource consulted 31 times

See all languages



## Origin ID

QD34

## Preferred Label


 multimorbidity


## 3-CGP entry term


 multi-morbidity

 polymorbidity

## 3-CGP conceptual content

 COMORBIDITY other diseases or health problems in addition to that being studied or dealt with.(Woncadic)

 Multimorbidity : is defined as any combination of chronic disease with at least one other disease (acute or chronic) or biopsychosocial factor (associated or not) or somatic risk factor. Any biopsychosocial factor, any risk factor, the social network, the burden of diseases, the health care consumption, and the patient's coping strategies may function as modifiers (of the effects of multimorbidity). Multimorbidity may modify the health outcomes and lead to an increased disability or a decreased quality of life or frailty.(Le Reste et al 2013)

 Multimorbidity ; The co-existence of two or more chronic conditions, where one is not necessarily more central than the others (Boyd & all 2010)

## Référence bibliographique

<http://bjgp.org/content/bjgp/24/141/251.full.pdf>

<http://www.ncbi.nlm.nih.gov/pubmed/23919296>

<http://journals.plos.org/plosone/article?id=10.1371/journal.plosone.0101137>

<http://www.ncbi.nlm.nih.gov/pubmed/25048354>

<http://www.ncbi.nlm.nih.gov/pubmed/16926936>

<http://www.ncbi.nlm.nih.gov/pubmed/25484244>

## UMLS CUI

Description Hierarchies Relations PubMed / Doc'CISMeF

## QD34 multimorbidity (Q-code)

Narrower

Inter-terminologic

Manual NTBT mappings (CISMeF) (1)

comorbidity

MeSH Descriptor

Automatic exact mappings (from CISMeF team) (1)

multimorbidity

MedDRA Preferred Term

See also inter- (CISMeF) (1)

multimorbidity

MedDRA Preferred Term

Description Hierarchies Relations PubMed / Doc'CISMeF

## QD32 health issue management (Q-code)

exact

Inter-terminologic

Curated CISMeF NLP mapping (4)

diagnosis

MeSH Descriptor

diagnostic services

MeSH Descriptor

diagnostic techniques and procedures

MeSH Descriptor

therapy

MeSH Qualifier

Validated automatic mappings to BTNT (1)

disease management

MeSH Descriptor

Broader

Équation automatique pour multimorbidity

((("multimorbidity"[TW] OR "multi-morbidity"[TW] OR  
"polymorbidity"[TW]))

Équation automatique pour health issue management

((("diagnostic services"[MH] OR ("diagnostic services"[TW] OR "services, diagnostic"[TW] OR  
"diagnostic service"[TW] OR "service, diagnostic"[TW] OR "health issue management"[TW] OR  
"disease management"[TW] OR "health problem management"[TW])) OR ("diagnostic techniques and  
procedures"[MH] OR ("diagnostic techniques and procedures"[TW] OR "technics and procedures,  
diagnostic"[TW] OR "diagnostic technics and procedures"[TW] OR "techniques and procedures,  
diagnostic"[TW])) OR ("diagnosis"[MH] OR ("diagnosis"[TW] OR "antemortem diagnosis"[TW] OR  
"postmortem diagnosis"[TW] OR "diagnoses"[TW] OR "diagnoses and examinations"[TW] OR  
"diagnosis, antemortem"[TW] OR "diagnoses, antemortem"[TW] OR "diagnosis, postmortem"[TW]  
OR "examinations and diagnoses"[TW] OR "antemortem diagnoses"[TW] OR "postmortem  
diagnoses"[TW] OR "diagnoses, postmortem"[TW] OR "care manager"[TW] OR "clinical  
decision"[TW] OR "clinical guidance"[TW]))))

## QD34 Multimorbidity is narrow

1.nih.gov/pubmed?term=("multimorbidity"%5BTW%5D+OR+"multi-morbidity"%5BTW%5D+OR+"polymorbidity"%5BTW%5D)&cmd=DetailsSearch

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PubMed ("multimorbidity"[TW] OR "multi-morbidity"[TW] OR "polymorbidity"[TW]) Search

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Review  
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Full text

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Show additional filters

Summary 20 per page Sort by Publication Date

**Search results**  
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1. [A two-way clustering framework to identify disparities in multimorbidity patterns of mental and physical health conditions among Australians.](#)  
Ng SK.  
Stat Med. 2015 Nov 20;34(26):3444-60. doi: 10.1002/sim.6542. Epub 2015 May 31.  
PMID: 26032906  
[Similar articles](#)

2. [Energy Metabolism and the Burden of Multimorbidity in Older Adults: Results From the Baltimore Longitudinal Study of Aging.](#)  
Fabbri E, An Y, Schrack JA, Gonzalez-Freire M, Zoli M, Simonsick EM, Guralnik JM, Boyd CM, Studenski SA, Ferrucci L.  
J Gerontol A Biol Sci Med Sci. 2015 Nov;70(11):1297-303. doi: 10.1093/gerona/glu209. Epub 2014 Nov 18.  
PMID: 25409892  
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3. [Transforming nurse training to address multi-morbidity: the missed opportunity of the shape of caring review.](#)  
Gray R.  
J Psychiatr Ment Health Nurs. 2015 Nov;22(9):653-4. doi: 10.1111/jpm.12268. No abstract available.  
PMID: 26459921  
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# QD32 Health issue management is very huge

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PubMed.gov US National Library of Medicine National Institutes of Health

PubMed ("diagnostic services"[MH] OR ("diagnostic services"[TW] OR "services, diagnostic"[TW] OR "c... Search

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Article types  
Clinical Trial  
Review  
Customize ...


Text availability  
Abstract  
Free full text  
Full text

PubMed  
Commons  
Reader comments  
Trending articles


Publication dates  
5 years  
10 years  
Custom range...

Species  
Humans  
Other Animals

Summary 20 per page Sort by Publication Date Send to: Filter your results:


**Search results** 

Items: 1 to 20 of 7942629 << First < Prev Page 1 of 397132 Next > Last >>

 Quoted phrase not found.

☐ [Coordination within medical neighborhoods: Insights from the early experiences of Colorado patient-centered medical homes.](#)  
Alidina S, Rosenthal M, Schneider E, Singer S.  
Health Care Manage Rev. 2016 Aug 6. [Epub ahead of print]  
PMID: 26259020  
[Similar articles](#)

☐ [Setting research priorities to improve global newborn health and prevent stillbirths by 2025.](#)  
Yoshida S, Martines J, Lawn JE, Wall S, Souza JP, Rudan I, Cousens S; neonatal health research priority setting group, Aaby P, Adam I, Adhikari RK, Ambalavanan N, Arifeen SE, Aryal DR, Asiruddin S, Baqui A, Barros AJ, Benn CS, Bhandari V, Bhatnagar S, Bhattacharya S, Bhutta ZA, Black RE, Blencowe H, Bose C, Brown J, Bühler C, Carlo W, Cecatti JG, Cheung PY, Clark R, Colbourn T, Conde-Agudelo A, Corbett E, Czeizel AE, Das A, Dav LT, Deal C, Deorari A, Dilmen U, English M

All (7942629)  
[English & Humans \(4926468\)](#)  
[Free Full Text \(1541370\)](#)  
[Items with Abstracts \(5701173\)](#)  
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[FM Mesh \(38714\)](#) 

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Each Q-Code is link to one or many free full text publications

journals.plos.org/plosone/article?id=10.1371/journal.pone.0135947

www.cidmef.u-... <b>Former aux... Sci G M TF P DBGUI Q-code DECS PH3C

plos.org

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RESEARCH ARTICLE

## Multimorbidity and Patient Safety Incidents in Primary Care: A Systematic Review and Meta-Analysis

Maria Panagioti , Jonathan Stokes, Aneez Esmail, Peter Coventry, Sudeh Cheraghi-Sohi, Rahul Alam, Peter Bower

Published: August 28, 2015 • DOI: 10.1371/journal.pone.0135947

www.ncbi.nlm.nih.gov/pubmed/25484244

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National Institutes of Health

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BMC Med. 2014 Dec 8;12:223. doi: 10.1186/s12916-014-0223-1.

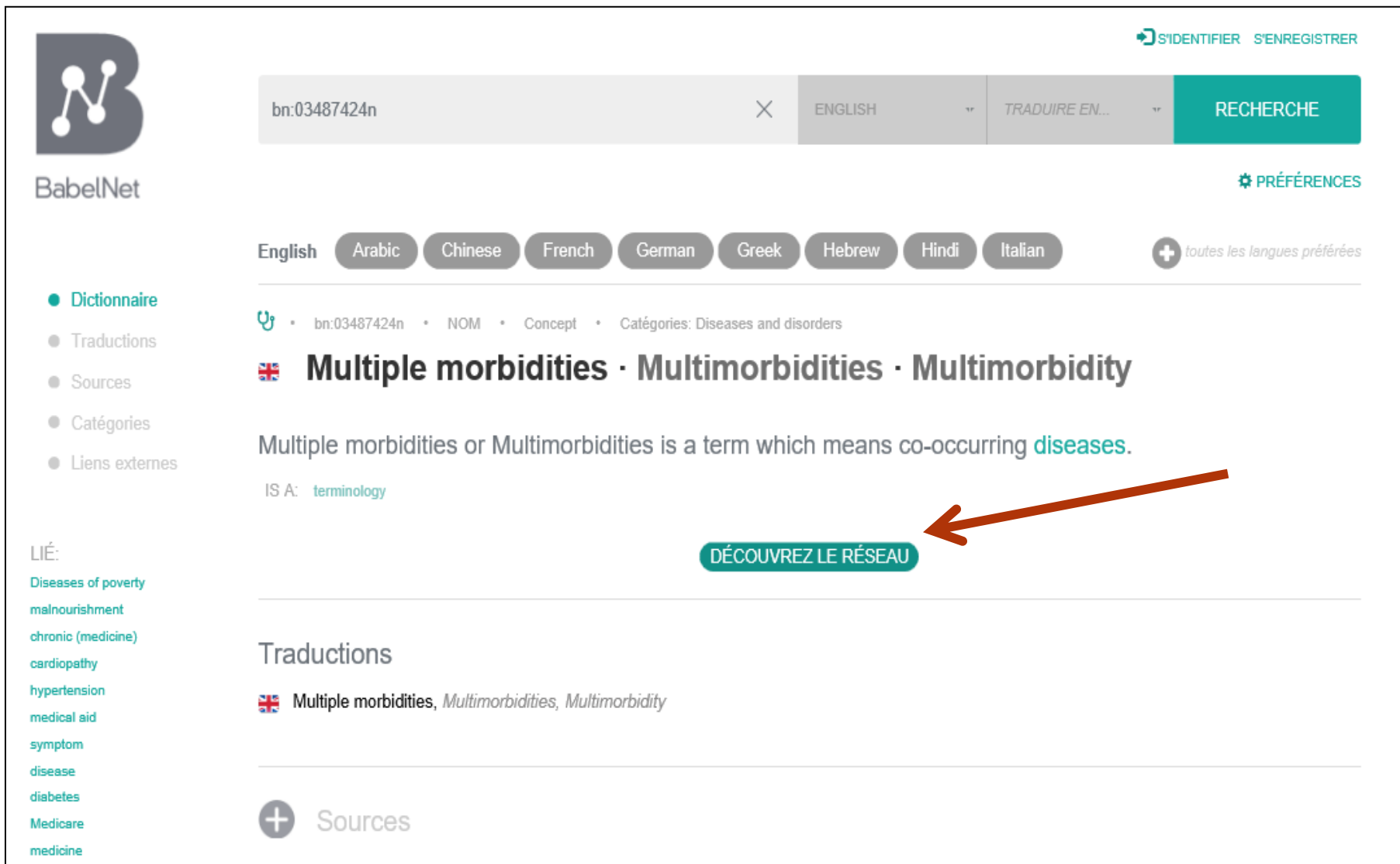
**The Ariadne principles: how to handle multimorbidity in primary care consultations.**

Muth C<sup>1</sup>, van den Akker M, Blom JW, Mallen CD, Rochon J, Schellevis FG, Becker A, Beyer M, Gensichen J, Kirchner H, Perera R, Prados-Torres A, Scherer M, Thiem U, van den Bussche H, Glasziou PP.

 Author information

Abstract

# Each Q-Code linked to Babelnet (semantic terminology)



The screenshot shows the BabelNet website interface. At the top left is the BabelNet logo. To the right of the logo is a search bar containing the text 'bn:03487424n'. To the right of the search bar is a button labeled 'RECHERCHE'. Above the search bar are links for 'S'IDENTIFIER' and 'S'ENREGISTRER'. Below the search bar is a button labeled 'PRÉFÉRENCES'. Below the search bar is a row of language buttons: English, Arabic, Chinese, French, German, Greek, Hebrew, Hindi, Italian, and a button labeled '+ toutes les langues préférées'. Below the language buttons is a list of categories: Dictionnaire, Traductions, Sources, Catégories, and Liens externes. Below the categories is a section labeled 'LIÉ:' with a list of related terms: Diseases of poverty, malnourishment, chronic (medicine), cardiopathy, hypertension, medical aid, symptom, disease, diabetes, Medicare, and medicine. Below the 'LIÉ:' section is a button labeled 'DÉCOUVREZ LE RÉSEAU'. Below the button is a section labeled 'Traductions' with a list of translations: Multiple morbidities, Multimorbidities, and Multimorbidity. Below the translations is a button labeled '+ Sources'. A red arrow points to the 'DÉCOUVREZ LE RÉSEAU' button.

BabelNet

bn:03487424n

RECHERCHE

PRÉFÉRENCES

English Arabic Chinese French German Greek Hebrew Hindi Italian + toutes les langues préférées

Dictionnaire  
Traductions  
Sources  
Catégories  
Liens externes

LIÉ:

Diseases of poverty  
malnourishment  
chronic (medicine)  
cardiopathy  
hypertension  
medical aid  
symptom  
disease  
diabetes  
Medicare  
medicine

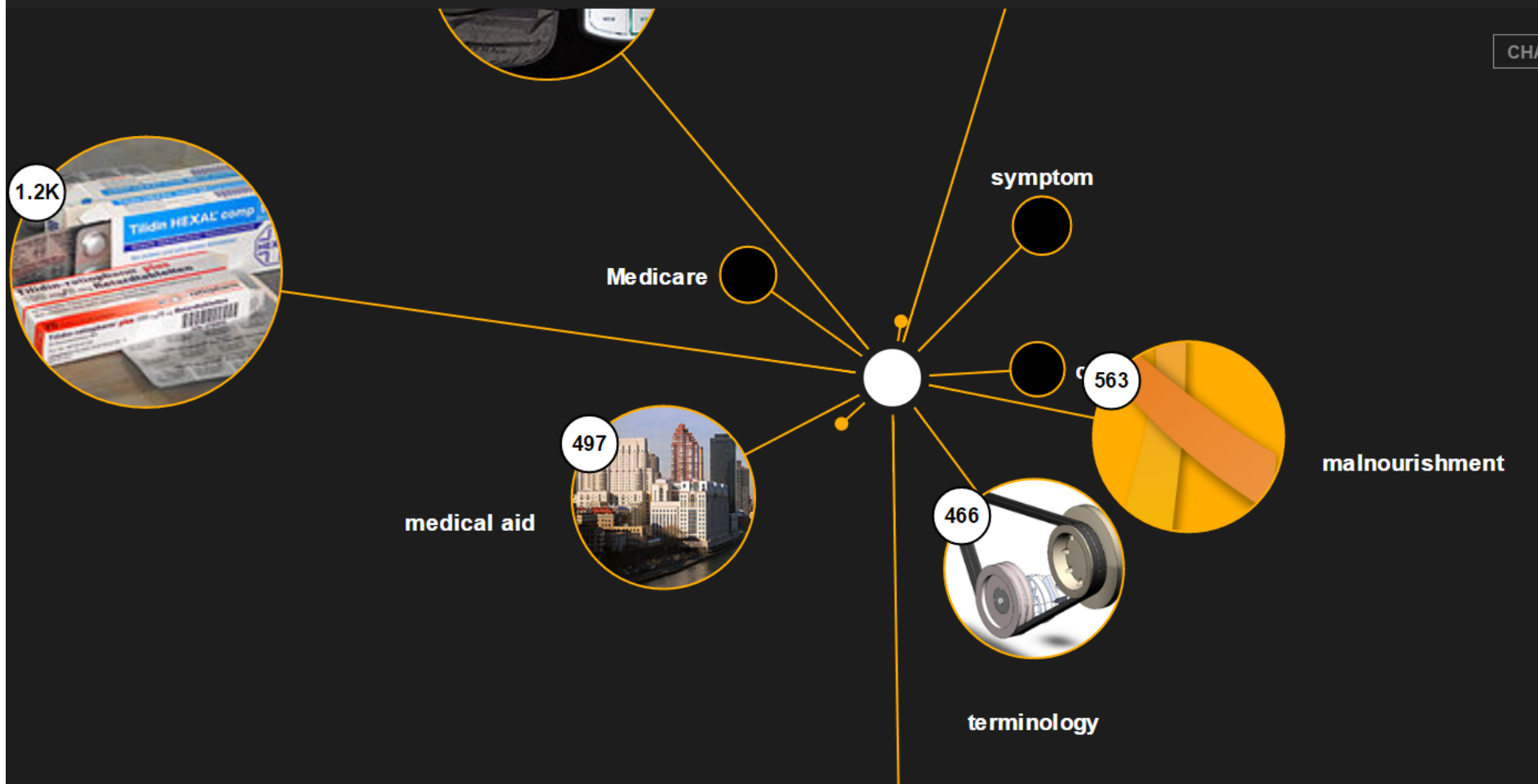
DÉCOUVREZ LE RÉSEAU

Traductions

Multiple morbidities, Multimorbidities, Multimorbidity

+ Sources

12 Semantically related form



# Each Q-Code linked to DBPedia (semantic terminology)

dbpedia.org/page/Multiple\_morbidities

Applications www.cidmef.u-... <b>Former aux... Sci G M TE P DBGUI Q-code DECS

## About: [Multiple morbidities](#)

An Entity of Type : [disease](#), from Named Graph : <http://dbpedia.org>, within Data Space : [dbpedia.org](#)

Multiple morbidities or Multimorbidities is a term which means co-occurring diseases. For example, a person could have diabetes and heart disease and high blo

Property	Value
<a href="#">dbo:abstract</a>	<ul style="list-style-type: none"><li>Multiple morbidities or Multimorbidities is a term which means co-occurring diseases. For example, a person could have two or more chronic illnesses. Some of the difficulties experienced by patients include: poor coordination of medication, poor adherence to treatment, and poor health status. These are common in people who are elderly, malnourished, or poor.</li></ul>
<a href="#">dbo:wikiPageExternalLink</a>	<ul style="list-style-type: none"><li><a href="http://cmcd.sph.umich.edu/managing-multiple-chronic-conditions.html">http://cmcd.sph.umich.edu/managing-multiple-chronic-conditions.html</a></li></ul>
<a href="#">dbo:wikiPageID</a>	<ul style="list-style-type: none"><li>6428816 (xsd:integer)</li></ul>
<a href="#">dbo:wikiPageRevisionID</a>	<ul style="list-style-type: none"><li>602849980 (xsd:integer)</li></ul>
<a href="#">dbp:hasPhotoCollection</a>	<ul style="list-style-type: none"><li><a href="http://wifo5-03.informatik.uni-mannheim.de/flickrwrappr/photos/Multiple_morbidities">http://wifo5-03.informatik.uni-mannheim.de/flickrwrappr/photos/Multiple_morbidities</a></li></ul>
<a href="#">dct:subject</a>	<ul style="list-style-type: none"><li><a href="#">dbc:Diseases_and_disorders</a></li></ul>
<a href="#">rdf:type</a>	<ul style="list-style-type: none"><li><a href="#">owl:Thing</a></li><li><a href="#">wikidata:Q12136</a></li><li><a href="#">dbo:Disease</a></li><li><a href="#">dbo:Medicine</a></li></ul>
<a href="#">rdfs:comment</a>	<ul style="list-style-type: none"><li>Multiple morbidities or Multimorbidities is a term which means co-occurring diseases. For example, a person could have two or more chronic illnesses.</li></ul>
<a href="#">rdfs:label</a>	<ul style="list-style-type: none"><li>Multiple morbidities</li></ul>
<a href="#">owl:sameAs</a>	<ul style="list-style-type: none"><li><a href="#">freebase:Multiple morbidities</a></li><li><a href="http://wikidata.dbpedia.org/resource/Q1952420">http://wikidata.dbpedia.org/resource/Q1952420</a></li><li><a href="http://wikidata.org/entity/Q1952420">http://wikidata.org/entity/Q1952420</a></li><li><a href="http://de.dbpedia.org/resource/Multimorbiditt">http://de.dbpedia.org/resource/Multimorbiditt</a></li></ul>
<a href="http://www.w3.org/ns/prov#wasDerivedFrom">http://www.w3.org/ns/prov#wasDerivedFrom</a>	<ul style="list-style-type: none"><li><a href="http://en.wikipedia.org/wiki/Multiple_morbidities?oldid=602849980">http://en.wikipedia.org/wiki/Multiple_morbidities?oldid=602849980</a></li></ul>
<a href="#">foaf:isPrimaryTopicOf</a>	<ul style="list-style-type: none"><li><a href="http://en.wikipedia.org/wiki/Multiple_morbidities">http://en.wikipedia.org/wiki/Multiple_morbidities</a></li></ul>
<a href="#">is dbo:wikiPageRedirects of</a>	<ul style="list-style-type: none"><li><a href="#">dbr:Multimorbidities</a></li><li><a href="#">dbr:Multimorbidity</a></li></ul>
<a href="#">is foaf:primaryTopic of</a>	<ul style="list-style-type: none"><li><a href="http://en.wikipedia.org/wiki/Multiple_morbidities">http://en.wikipedia.org/wiki/Multiple_morbidities</a></li></ul>

Browse using: [OpenLink Data Explorer](#) | [OpenLink Faceted Browser](#) Raw Data in: [CXML](#) | [CSV](#) | [RDF](#) ( [N-Triples](#) [N3](#) [Turtle](#) [JS](#) )

POWERED BY VIRTUOSO LINKING OPENDATA W3C SPARQL OPEN DATA

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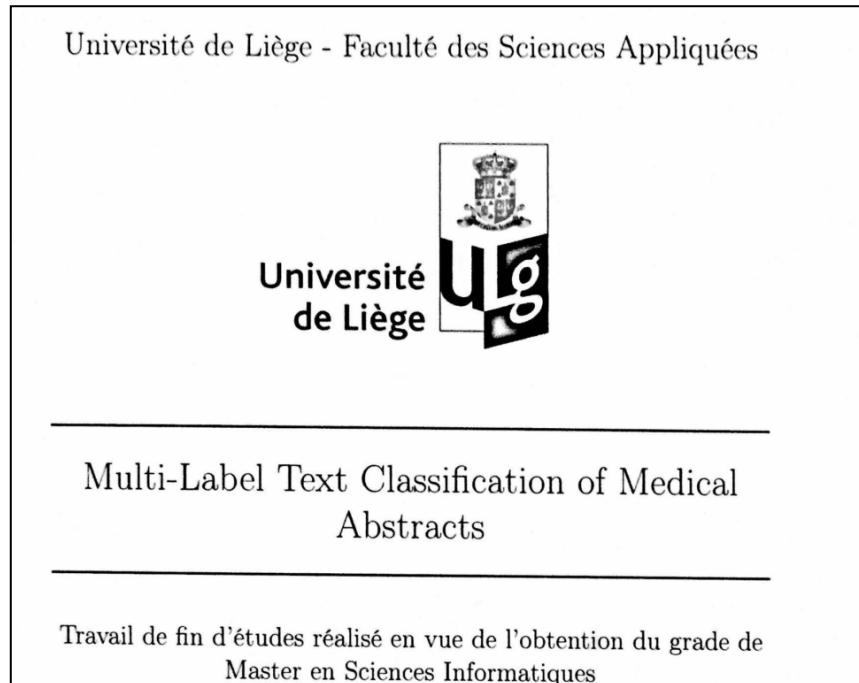
# All data available in Excell and OWL2

Q-Codes MeSH

citations urls

	A	B	C	
13	CGP_QC_QC23	QC23	sex difference	<a href="http://www.ncbi.nlm.nih.gov/pubmed/25762943">http://www.ncbi.nlm.nih.gov/pubmed/25762943</a> <a href="http://www.pec-journal.com/article/S0738-3991(02)00174-X/abstract">http://www.pec-journal.com/article/S0738-3991(02)00174-X/abstract</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/25028304">http://www.ncbi.nlm.nih.gov/pubmed/25028304</a>
14	CGP_QC_QC24	QC24	transgender	<a href="http://www.ncbi.nlm.nih.gov/pubmed/22947575">http://www.ncbi.nlm.nih.gov/pubmed/22947575</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/23317072">http://www.ncbi.nlm.nih.gov/pubmed/23317072</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/25004583">http://www.ncbi.nlm.nih.gov/pubmed/25004583</a>
15	CGP_QC_QC3	QC3	social high risk	<a href="http://www.ncbi.nlm.nih.gov/pubmed/23749458">http://www.ncbi.nlm.nih.gov/pubmed/23749458</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/22409902">http://www.ncbi.nlm.nih.gov/pubmed/22409902</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/25329578">http://www.ncbi.nlm.nih.gov/pubmed/25329578</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/7721596">http://www.ncbi.nlm.nih.gov/pubmed/7721596</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/10626046">http://www.ncbi.nlm.nih.gov/pubmed/10626046</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/23657696">http://www.ncbi.nlm.nih.gov/pubmed/23657696</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/22639799">http://www.ncbi.nlm.nih.gov/pubmed/22639799</a>
16	CGP_QC_QC31	QC31	ethnic subgroup	<a href="http://www.ncbi.nlm.nih.gov/pubmed/11775671">http://www.ncbi.nlm.nih.gov/pubmed/11775671</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/16342851">http://www.ncbi.nlm.nih.gov/pubmed/16342851</a>
17	CGP_QC_QC32	QC32	migrant & refugee	<a href="http://www.ncbi.nlm.nih.gov/pubmed/25418563">http://www.ncbi.nlm.nih.gov/pubmed/25418563</a> <a href="http://www.biomedcentral.com/1471-2296/8/48">http://www.biomedcentral.com/1471-2296/8/48</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/17134491">http://www.ncbi.nlm.nih.gov/pubmed/17134491</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/25108001">http://www.ncbi.nlm.nih.gov/pubmed/25108001</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/20603342">http://www.ncbi.nlm.nih.gov/pubmed/20603342</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/25597365">http://www.ncbi.nlm.nih.gov/pubmed/25597365</a>
18	CGP_QC_QC33	QC33	homeless	<a href="http://www.ncbi.nlm.nih.gov/pubmed/894420">http://www.ncbi.nlm.nih.gov/pubmed/894420</a> <a href="http://ec.europa.eu/social/main.jsp?catId=1061&amp;langId=en">http://ec.europa.eu/social/main.jsp?catId=1061&amp;langId=en</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/8944208">http://www.ncbi.nlm.nih.gov/pubmed/8944208</a>
19	CGP_QC_QC34	QC34	prisoner	<a href="http://www.ncbi.nlm.nih.gov/pubmed/25688221">http://www.ncbi.nlm.nih.gov/pubmed/25688221</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/22634816">http://www.ncbi.nlm.nih.gov/pubmed/22634816</a> <a href="http://www.ncbi.nlm.nih.gov/pubmed/22987064">http://www.ncbi.nlm.nih.gov/pubmed/22987064</a>

# Sebastien Rigaux . Multi-label text classification of medical abstracts. Master thesis. ULg. 2015.



F-1 score 0,4

On 500 abstracts analysed forCNGE 2013 et 2014

# At least, I have a knowledge base

- Its own value(one observer, European centered – multiple bias)
- But the only Bottom up (precedences; FAMLY 1992 & GP LIT 1998)
- Which is attracting huge interest (Numerous translations)
- Undergraduate trainees in GP/FM are fond of
- Possibly evolutive
- Fit for NLP
- Projet of a book (for humans without Internet)
- And an ontology (for machines)
- That's for 2017 (for my 70 bithday😊)



# Numerous friends to acknowledge

- (be) Marc Van Meerbeek , Aswin Ittoo, Sebastien Rigaux, Robert Vander Stichele, Johan Brouns, Serdal Sanak
- (br) Gustavo Gusso, Raquel Cardoso, Arthur Treuherz, Hamilton Wagner, Armando Norman
- (nl) Kees van Boven
- (ar) Mariano Marino
- (ur) Miguel Pizanelli
- (fr) Stefan Darmoni, Julien Grosjean, Gaetan Kerdelhue, Laurent Letrilliart, Christian Simon
- (It) Elena Cardillo
- (us) Melissa Resnick
- (vn) Liem Than Vo

# I miss you all !

