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Towards Knowledge management in General Practice & Family Medicine; Guide to the indexing of master thesis.

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Abstract

The Francophone Coordination Center for Training in General Practice (CCFFMG) (www.ccffmg.be)(French) is in charge of organizing the public release of the End-of-Study works (Master thesis) in General Practice/Family Medicine (GP/FM) . This work is carried out at the end of the Master of Specialty of the Departments of General Practice of the Free University of Brussels (ULB), the Catholic University of Louvain (UCL) and the University of Liège (ULg). A dedicated website (www.mgtfe.be) offers an online copywriting guide. This site provides also a description and instruction manual for a GP/FM indexing system discussed in this document.

This experimental system, based on the assembly of the International Classification of Primary Care, second version (ICPC-2), and a new contextual classification called Q-Codes version 2.5 is intended to help the manual indexation of the Master Thesis. The package, called Core Content Classification in GP/FM (3CGP), is now available in 8 languages (en-fr-nl-es-pt-vi-ko-tr) on the multilingual web site of Department of Medical Information and Medical Informatics (B2IM) of the University of Rouen (www.hetop.eu/q) together with a companion site (<http://3cgp.woncaeurope.org>) (in English).

Family physician will be asked to choose a number of proposed codes to index their jobs at the time of online filing. The publishing site will be equipped with a search module based on the 3CGP indexing system. An evaluation of the system of indexing by the users is organized.

Notes :

This experimental system could be extended to other knowledge sources, as indexing abstracts of congresses in GP/FM, indexing repository of master thesis in GP/FM, indexing messages between health providers and patient for instance and more generally grey literature in GP/FM. As 3CGP is in development, a working group is available on Google group (q-codes-working-group@googlegroups.com)

This text contains some duplicated information as each main headings has to be edited in a separate webpage

1. What is the value of indexing a master thesis topic ?

There are at least 6 good reasons to index a master thesis topic.

1.1. Facilitate the identification of the work

If master thesis are available in an online application (ex in French MGTFE <http://www.mgtfe.be>), the reader who seeks a subject will be able to find the master thesis he / she is interested in. Specific indexing General Practice and Family Medicine (GP/FM) likely contribute to better identification of the work.

1.2. Giving visibility to the work

Still information is unnecessary information. If a document, an end-of-study job, a presentation can not be located and retrieved, they are of no interest to anyone. The long working hours devoted to the realization of an exciting final work will serve nobody other than its author. As Levasseur and Schwyer points out in 2003 and for France; "The methods of indexing the records in the university databases do not allow a clear visibility of general practice as an academic discipline" ^[1]. By encouraging documentary research, it is hoped to contribute to increasing the visibility and thus the credibility of general practitioners.

1.3. Encouraging multilingual knowledge & research networks

An identification of the subjects of a work by indexation makes it possible to identify the similarities, the complementarities, the deepening, the differences and the originalities of a subject in relation to others. This allows for linkages between authors and the stimulation of knowledge or research networks. The exchange of knowledge and the networking of researchers is essential to the development of general practice. GP/FM is universal and terminological tools are available yet in 8 languages (en-fr-nl-es-pt-vi-ko-tr -more ongoing) Family doctors worldwide exchange in their own language and multilinguality is essential.

1.4. Have a quality self-monitoring tool

Indexing a final work topic is an opportunity to verify that the concepts we want to discuss in the work provided are well defined and delimited. *"What is well conceived is clearly stated and the words to say it come easily"*(French proverb).

1.5. Enabling visibility of gray literature in GP/FM

Whatever the country, the production of doctors in general practice specialty training is often of very high quality and not often followed by publication. The online publication with a multilingual indexing system will allow visibility of this grey literature in general medicine. Insofar as other universities and associations of general practitioners throughout the world use the same system of indexation, a corpus of knowledge and networks of national and international actors sharing the same interests will emerge.

1.6. Participate in the improvement of the indexing system

An online feedback system allows an author to propose a concept which he would not find correspondence in the proposed categories. These contributions will be carefully collated. Proposals will be discussed for possible incrementing in later versions of the tools. GP/FM is an evolutionary discipline whose indexing system must be evolutionary.

2. What are the indexing tools?

It is customary to use the term "keyword" to designate the indexing terms of a book, the terms that best identify the concepts being treated. We will use the term descriptor which belongs to the vocabulary of the documentology.

Scientific articles in the international medical literature are most often indexed with the descriptors derived from the terminology of the National Library of Medicine (NLM). This terminology is a set of more than 25,000 terms classified into chapters. The chapters are called Headings. The terminology is called Medical Subject Heading or abbreviated MeSH (<https://www.ncbi.nlm.nih.gov/mesh>)

The use of these descriptors has been called by their MeSH acronyms. Finding specific topics in GP/FM in this huge set of more than 25,000 MeSH is quite difficult. Moreover, there are often several MeSHs per specific theme of GP/FM.

To facilitate the indexing task in MGTFE / edition, we use a set of some 1200 normalized terms derived from two categorization tools in GP/FM, which are themselves crossed with MeSH.

- For topics dealing with clinical concepts, we use the International Classification of Primary Care, second version or ICPC-2. ^{[2][3]} together its ICPC-2 Procedures codes.

- For non-clinical items, also called contextual, we use the Q-Codes, version 2.5 ^{[4][5]}

2.1. Indexing clinical themes by ICPC-2

The International Classification of Primary Care, version 2 or ICPC-2 is the most widely used classification instrument in clinical settings in GP/FM. Its structure and use are described in detail on the website of the WONCA working group in classification (www.ph3c.org)

The subject of a master thesis in GP/FM may contain clinical themes. That means dealing with the problems of people, of patients, in terms of clinical practice. So we're going to talk about symptoms and diagnoses or working hypotheses. In this case, the topic chosen should be found in the headings of the ICPC-2 headings. One can review into all the frequent problems of GP/FM. Of the 700 items, 350 are of very frequent presentation.

Examples.

Symptoms can be identified such as nausea (D06) or fatigue (A04) or diagnostic procedures such as electrocardiography (42.001) or familiogramme (43.003) or diseases such as Multiple Sclerosis (N86) or Schizophrenia (P72).

Rare diseases also have their place in ICPC-2 but are grouped under global headings related to the specific categories of the International Classification of Diseases, 10th Revision (ICD-10).

In several countries of Europe the family physician uses labeled software that contains the ICPC-2 and correspondence with ICD-10. If a clinical aspect has been studied, the ICPC-2 code can easily be found in the software since these codes are sometimes used for the realization of computerized summaries (ie SUMEHRs – summarized electronic health record- in Belgium⁶), enabling the transfer of information to other providers.

Figure 1. The chapters of the ICPC-2 in English to capture its memo-technical aspect.

• A - general	• R - respiratory
• B - blood , immune system	• S - skin
• D - digestive	• T - metabolic, endocrine
• F - eye	• U - urological
• H - ear (hearing)	• W - women's health, pregnancy, family plan
• K - circulatory	• X - female genital
• L - musculoskeletal	• Y - male genital
• N - neurological	• Z - social problems
• P - psychological	

Access to ICPC-2 Hierarchy online

http://www.hetop.org/hetop/?la=en&rr=CIP_C_ARBO&tab=1

→ Download the ICPC-2 copydesk in several languages here :

<http://3cgp.docpatient.net/communications-publications/>

2.2. Indexing of processes by ICPC-2 process

The processes asked for or requested by the family physicians are gathered in a sub-set of the ICPC-2 called ICPC-2 process. Recently (2016 - beta version – unpublished) the 30 categories (numbered 30 to 69) that form the ICPC-2 process codes have been republished in detail by the Wonca International Classification Committee which manages ICPC-2. There is therefore a list of 350 current procedures arranged in ascending order and available online.

Access to ICPC-2 Process Hierarchy online

http://www.hetop.org/hetop/?la=en&rr=CIP_C_ARBOPROC&tab=1

→ Download the ICPC-2 process copydesk (beta version) in 4 languages (more ongoing) here :

<http://3cgp.docpatient.net/communications-publications/>

2.3. Indexing of contextual themes by Q-Codes version 2.5

Q-Codes are also a taxonomy, a list of 182 categories distributed hierarchically. The letter Q is not used in the ICPC-2. It is therefore available to designate this complementary contextual classification. These sections come from the patient qualitative analysis of hundreds of abstracts presented by colleagues at the congresses of GP/FM in Europe. In the Q-Codes, one can choose different descriptors that will allow us to index the work. These include, for example, health problem management (QD32) or shared decision-making (QD323) or patient satisfaction (QP41). The subject of the work will contain necessarily non-clinical themes, also called contextual. To fully understand the genesis and structure of the Q-Codes see <http://3cgp.woncaeurope.org>

Access to Q-Codes hierarchy online

http://www.hetop.eu/hetop/Q?la=en&rr=CGP_CO_Q&tab=1

→ Download the Q-Codes version 2.5 copydesk in 8 languages

see

<http://3cgp.docpatient.net/tabular/>

The combination of ICPC-2, the ICPC-2 process and the Q-codes forms a set called the Core Content Classification of General Practice (3CGP).

This set has to be proposed online in a coding interface and will allow to choose the themes of indexing.

3. Accessing the index

3.1. Structure and access to clinical themes

PROCESS CODES
SYMPTOMS/COMPLAINTS
INFECTIONS
NEOPLASMS
INJURIES
CONGENITAL ANOMALIES
OTHER DIAGNOSES

digits.

For easy reference, consider the color codes of the ICPC-2. Headings numbered 01 to 30 are green and represent symptoms and complaints. The procedures are common to all chapters, numbered from 30 to 69 and graded Grey. The diagnostic endpoints are numbered from 70 to 99, yellow (infections), light blue (tumors), red (trauma), dark blue (congenital), purple (other).

The ICPC-2 contains about 700 items, 350 of which are commonly used. The symptoms and diagnoses are coded by a letter and two numerical

Examples:

A04: fatigue. N76: multiple sclerosis.

Of course these are categories in which all forms of fatigue and all forms of multiple sclerosis enter. For process, the procedural part of the classification is used which is coded from 30 to 69 according to the XX.000 format. If you study the ECG in your work we will note 42.001, if you study one of the varieties of scopy like gastroscopy, the notation will be 40.006.

Reminder:

Useful links for indexing on <http://3cgp.woncaeurope.org>

- The two-sided copydesk color version of ICPC-2
- The complete list of the usual process of ICPC-2
- The list of Q-Codes

Useful links for ICPC-2 on <http://www.ph3c.org>

- An introductory tutorial to ICPC-2 in English on http://www.ph3c.org/4daction/w3_CatVisu/en/educational-training.html?wCatIDAdmin=1122

3.2. Structure and access to contextual themes

The Q-Codes are organized into 8 domains; QC; Patient category, QD; Doctor issue, EQ; Ethical issue, QH; Health of the planet, QP; Patient issue, QR; Research and development, QS; Structure, QT; Knowledge management.

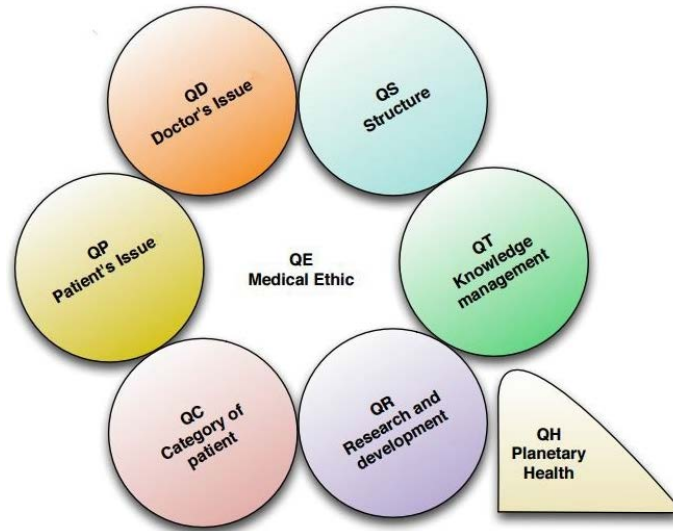
FIG. 2 shows the 8 domains of the Q-Codes as a matrix. It should be noted that ethics is central to the practice of the profession. The health of the planet forms the tail of the letter Q and prevents the wheel from turning, highlighting the determining role of the environment in health.

Each domain of Q-Codes is opened in categories and sub-categories. The conceptual content of each Q-Codes can be explored by consulting the online knowledge base on the site of the Department of Medical Information and Medical Informatics (B2IM) of the University of Rouen, accessible on the site www.hetop.eu/q after free registration. It will suffice to post in the search bar the corresponding Q code after choosing the language. On the same site you can consult the ICPC-2 or the MeSH.(and more than 70 other terminologies)

3.3. Online indexation and feed-back

In an online application, an author must have access to a specific area reserved for indexing. The author may select the ICPC-2 codes and Q-codes presented to him in the form of a list of headings including the code and its title. A comment box has to be provided next to the chosen code. If the author considers that a concept he is addressing in his work is not included in the proposed lists, he is invited to use the **QO4 codes; Consider new code** and explain this proposal in a comment.

Figure 2. The Q-Codes domains as a matrix in the shape of a letter Q.



4. How perform a good indexation ?

Generally, it will be indexed on the basis of the title of the work and its abstract. In reality, the content of the title, the introduction and the method will suffice for a good indexation. Proper indexing implies that the themes chosen for indexing represent the concept that the author wants to mean. If the author is not sure of his choice, he will have to examine the exact contents of the section of the chosen code by referring to his description on the multilingual website www.hetop.eu/Q accessible free after identification.

Properly identifying concepts means that we have understood what we are talking about. This also makes for a good title. Identify the target, time or actors then the method will be enough to write a very telling title.

4.1. Some principles

- Ask four questions

According to Vanmeerberbeek and all ^[7] these four questions are central to the writing of a Master thesis

- What is the objective? What is the central problem to be addressed?
- In what context is research positioned?
- What is the target? Is it population, acts, or disease?
- Which method? How the author he has come to advance its research

- Limit indexing

Indexing is not used to highlight your findings or conclusions, which should never be included in the title. Title and indexing must answer the same four questions. Results and conclusions are never indexed.

- Pay attention to words that may be ambiguous

Example.

A study on patient attendance based on the hours of activity of a health center is a study on the Permanence of care and therefore focuses on the concept of temporal accessibility which is coded QP22. A study on patient support through the health system should be identified by the code QD25 Continuity of Care.

- Check the choice of a descriptor

In order to ascertain the relevance of the choice and to understand the content of each 3CGP concept and therefore the meaning of each code, one can consult www.hetop.eu/Q (free login). By inserting the chosen code into the search bar, one can find a detailed fact sheet for each code that illuminates the content of the concept with a set of articles relevant to the concept under study.

- Contribute, if necessary, to the improvement of Q-Codes

If a theme is not found and is to be proposed as a new concept to be included in later versions of the Q-Codes, the author will use the QO4 code with the corresponding concept entered in the comment area.

- Use the resources

- The two-sided color version of the ICPC-2 copydesk
- The complete list of the usual processes ICPC-2 Process (beta version)
- The Q-Codes copydesk

4.2. Examples of themes

THEME PROPOSED 1

THE QUESTION OF INCREASED TUBERCULOSIS SEEN BY FAMILY PHYSICIANS.

- What would be the objective of the research?

It is somewhat harder to think that if we are dealing with the issue of recrudescence of TBC and we are in general medicine, then it is the concept of Epidemiology of Primary Health Care that we must choose, coded QR23 .

- What context?

If we decide to be specific to family medicine, we will have to choose the code QS41.

- What target?

Are they consultant patients, patients identified as positive? In this case, it will be necessary to use the code corresponding to the TBC or A70 in ICPC-2

- What method?

The study could be a review of the literature on the subject that is coded QT33.

The theme of the TFE can thus be read "Review of the literature on the epidemiology of Tuberculosis in family medicine".

Coding: A70; QR23; QS41; QT33

THEME PROPOSED 2

A STUDY OF THE IMPACT OF ECG ON REFERRAL OF CARDIOVASCULAR DISEASE PATIENT TO CARDIOLOGIST BY FAMILY PHYSICIAN

- What would be the objective of the research?

ECG (ICPC-2 process 42.001 electrocardiogram (ECG), Reference to specialist (ICPC-2 process 67.001 referral to a specialist) and coordination of care; Q-Codes QS32

- What context?

Family physicians Q-Codes; QS41

- What target?

Group of patients with cardiovascular disease. The concept of cardiovascular disease actually encompasses the entire ICPC cardiovascular chapter. We will therefore use code ICPC-2; K cardiovascular problem. It should be emphasized that there are no categories in the ICPC for very general topics such as "cancer patients" or "infectious diseases"

- What method?

Quantitative descriptive study QR32 and possibly review of literature QT33

Coding: K; 42.001; 67.001; QS 32; QS41; QR32; QT33

THEME PROPOSED 3

STUDY BY FOCUS GROUP ON THE INVOLVEMENT OF THE FAMILY PHYSICIAN IN OCCUPATIONAL HEALTH PROBLEMS: PERCEPTION OF FAMILY PHYSICIAN AND PATIENTS.

- What would be the objective of the research? Medico-legal problem QD6, Work problem Z05, certificate of illness ICPC-2 Process; 62.001 sick leave document
- What context? Family medicine QS41
- What target? Occupational medicine, concept missing in Q-Codes, use QO4
- What method? Focus group is QR6

Coding: QD6; Z05; 62.001; QS41; QO4; QR6

The choice of QO4 implies that you indicate the concept that, in your opinion, is missing in the comment area.

THEME PROPOSED 4

SATISFACTION OF PATIENTS WITH AURICULAR FIBRILLATION IN THE COORDINATION OF CARE BETWEEN THE FIRST AND THE SECOND LEVEL

- What would be the objective of the research? : QP41 patient satisfaction
- What context?: QS33 coordination of care, -68 Sending to specialist, QS41 Family medicine
- Which target? : K78 Atrial fibrillation / flutter.
- What method?: QR31 qualitative study

Coding: QP41; QS33; -68; QS41; K78; QR31

THEME PROPOSED 5

THE PRECARIETY OF A POPULATION OF MIGRANTS IS CONSIDERED. WE WOULD LIKE TO EVALUATE THE HEALTH STATUS OF SURVIVORS WHO PRESENT SEQUELLES AND A STRESS-LIFE STRESS SYNDROME RELATED TO LIVING CONDITIONS.

- What would be the objective of the research?: QC3 high social risk
- What context? :QC32 refugee
- What target? :QC6 survivor, QC54 victim of torture, P82 Post-traumatic stress syndrome
- What method?:QD33 health status assessment

Coding: QC3; QC32; QC6; QC54; P82; QD33

THEME PROPOSED 6

QUALITATIVE STUDY ON THE COORDINATION OF CARE BETWEEN FAMILY PHYSICIAN AND NURSE IN PALLIATIVE CARE TO A PATIENT WITH AMYOTROPHIC LATERAL SCLEROSIS

- What would be the objective of the research?: QS32, coordination of care; QD25, continuity of care; QD24, Palliative Care
- What context? : QS41 family physicians; QS42 the nurse practitioner.
- What target? : N99 (Amyotrophic Lateral Sclerosis, SLA). Care for a patient with a presentation disorder uncommon in general practice.
- What method? : QR31, qualitative study; Perhaps with review of the literature; QT33

Coding: QS32, QD25, QD24, QS41, QS42, QR31, QT33; N99 (Amyotrophic Lateral Sclerosis)

Comment. In ICPC-2, infectious diseases and rare diseases are identified by code 99 after the chapter letter(recall that the primary intent of ICPC-2 has been epidemiologic studies). Thus, Young Simpson's disease will be found in A99 while Amyotrophic Lateral Sclerosis will be identified by the code N99. In the computerized medical record, the various infrequent and rare diseases can be identified by the code of the corresponding International Classification of Diseases (ICD-10). For indexing purposes, the .99 code should be used with the letter of the corresponding chapter, indicating the name of the infrequent or rare disease in the comment area.

4.3. Examples of online published master thesis

EDITED MASTER THESIS 1

RÔLE DU MÉDECIN DE FAMILLE DANS L'IDENTIFICATION ET LA PRISE EN CHARGE DES TROUBLES SPÉCIFIQUES DE L'APPRENTISSAGE [ROLE OF THE FAMILY PHYSICIAN IN THE IDENTIFICATION AND MANAGEMENT OF LEARNING SPECIFIC DISORDERS]^[8]

Author. Esperance Segikwyie

Summary. Family doctors rarely see school-aged children and adolescents for school problems. Nevertheless family doctors must know;

- Some of the academic difficulties presented by children are due to specific learning disabilities, and these disorders affect between 3% and 5% of the children attending school, ie one pupil per class.
- Define the different types of specific disorders, their predictive factors, their comorbidity and their consequences.
- Be aware of this problem and have some guidelines to approach this very complex consultation.

To identify the problem, the literature on the subject was revised and some key articles were selected. Participation in the training on Specific Learning Disorders was monitored in Paris. Numerous discussions with the doctors and speech therapist of the Health Center Espace-Temps (Belgium) as well as with the psychologist of the school made it possible to define the subject.

- What would be the objective of the research? : P24 Specific Problem of Learning
- What context? : QS41 family doctor, QD3 care manager
- Which target? : QC12 child; QC13 teen
- What method? : QT2 training, QR6 expert opinion, QT33 critical reading of literature

Coding: P24; QS41; QD3; QC12; QC13; QT2; QR6; QT33

EDITED MASTER THESIS 2

SUJETS DE PRÉVENTION QUATERNAIRE EN MÉDECINE GÉNÉRALE[QUATERNARY PREVENTION THEMES IN GENERAL PRACTICE]^[9]

Author. Pierre-Axel Warnier

Summary. The concept of quaternary prevention is at the same time little known and little implemented by the Belgian doctors. How to increase the penetrance of this concept in the profession? A diffusion method is implemented and requires for its development that users take part in the creation process in order to make its growth exponential. To make quaternary prevention more accessible to general practitioners, we propose the creation of a platform on a well-known website. We will explain the concept of quaternary prevention and will post practical fact sheets answering common clinical questions from the general practitioners. These pages can both illustrate the concept but can also be used directly in consultation. In order for this list of subjects to be expanded, a Quaternary Prevention Committee is created and readers are encouraged to write further fact sheets, comment or request the development of certain topics to which the unit will respond.

- What would be the purpose of the research ? : QT42 online knowledge exchange
- What context? : QD44 quaternary prevention
- Which target? : QS41 family doctor
- What method? : QT43 digital library

Coding: QT42; QD44; QS41; QT43

5. Flaws and problems

It looks evident that the proposed methods, although very attractive for colleagues worldwide suffers of several flaws and problems.

The future of knowledge management in GP/FM is, as for other business, in semantic web technologies^[10]. We can hardly say that 3CGP as a whole is ready for semantic web.

Indeed ICPC-2 is multilingual, expressed on a web site and extractible in OWL-2, the language of semantic web. Indeed a lot of work has been done to develop a ICPC lightweight ontology and a thesaurus in Italian language^[11]. But this is only the premise of a real ontology, able to play its role in the linked data era.

ICPC-2 process is still in infancy, the available pick-list is only a pick list of the main, not all, processes done or requested in GP/FM

Q-Codes have been the subject of extensive documentation work and are available also in OWL-2 but, one more time, the path for an ontology is open but not done

The three components of 3CGP have different origin, different format and consequently different numbering units, which is not as elegant nor useful for a classification scheme.

Terminologies needed for GP/FM are not a terminology for dummies. On the contrary, as a representative and protector of the patient, the GP must be able to control all the terms of medicine that are likely to be found in the patient's online medical record. And as a consequence, he must be able to discuss this matter with his colleagues and to refer to it in the work he presents in congresses.

We could hope that Wonca International Classification Committee will address all those issues in a near future and that development of ICPC-3 will follow the model of ICD-11, fit for semantic exchanges^[12].

Nevertheless, the proposed 3CGP attracts interest in several countries and plan are elaborated in various place to use it in human based indexing systems (Brazil, Belgium, Uruguay, Portugal). Automated systems are experimental^[13] but needed to address grey literature in GP/FM. As an example, the Wonca Europe database and its 30.000 abstracts online don't have indexing system.

6. Annex

The document reproduced are two-sided pages in English for each part of 3CGP (ICPC + Process = Q-Codes) available on <http://3cgp.woncaeurope.org> in several languages

- Annex 1 : ICPC-2 copy desk
- Annex 2 : ICPC-2 Process 2016 Beta version
- Annex 3 : Q-Codes version 2.5

7. Intellectual property of the proposed tools

5.1. ICPC-2

The International Classification of Primary Care (ICP-2) has been created by the Wonca International Classification Committee (WICC). The World Organization of Family Medicine (Wonca) holds the rights of ICPC-2. ICPC-2 and its translations are free of rights for research provided that it is referred to a WICC member.

Professional use, in its extended meaning for use in online databases for educational purposes, for example, is considered a commercial use and must be licensed. To contact the Wonca; Ceo@wonca.net

5.2. Q-CODES version 2.5

The Q-Codes and its different versions belong to Marc Jamouille. They are available under Creative Common 4.0 non-commercial license. (<https://creativecommons.org/licenses/by-nc/4.0/>)

This implies that the tool is free to use for private use. Any changes must be communicated to the author. Professional use, in its extended meaning for use in online databases for educational purposes, for example, is considered a commercial use and must be licensed.

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marc.jamouille@gmail.com April 2017 3CGP Additional material.

3CGP : Core Content Classification on General Practice Family Medicine

Comprehensive classification of descriptors prepared for indexing main themes in GP/FM

Developed for indexation of grey literature in GP/FM (abstract, master thesis, training programs, etc..)

3 components (1252 descriptors)

1/ ICPC-2 for symptoms/complaints and diagnoses (Wonca)(19 languages)(format n.00)

2/ ICPC-2 Process 2016 (beta version) for process (Wonca)(4 languages) (format 00.000)

3/ Q-Codes version 2.5: for contextual themes (MJ) (8 languages)(Format Qn.00)

See the three copydesks attached

Detailed information on each descriptor available online ; www.hetop.eu/Q free login


Companion website : <http://3cgp.woncaeurope.org>

The attached copy desks are available in several language

The full set of descriptors is available in French, English, Portuguese and Spanish

Free download

ICPC-2 is copyrighted by Wonca

Q-Codes version 2.5 are under Creative Common non-commercial 4.0 license 

Other Q-Codes use are described on on the rubric 'Implementation' of the website

<http://3cgp.woncaeurope.org>

3CGP allow to know a lot about GPs

What they are listen too (symptoms/complaints)

What they decide (diagnosis - symptom/diagnosis)

What they do (process)

What is the contextual information (Q-Codes)

The classification 3CGP is experimental and distributed for discussion.

ICPC-2 – English
International Classification of
Primary Care – 2nd Edition
Wonca International
Classification Committee
(WICC)



Process codes

- 30 Medical Exam/Eval-Complete
- 31 Medical Examination/Health Evaluation-Partial/Pre-op check
- 32 Sensitivity Test
- 33 Microbiological/Immunological Test
- 34 Blood Test
- 35 Urine Test
- 36 Faeces Test
- 37 Histological/Exfoliative Cytology
- 38 Other Laboratory Test NEC
- 39 Physical Function Test
- 40 Diagnostic Endoscopy
- 41 Diagnostic Radiology/Imaging
- 42 Electrical Tracings
- 43 Other Diagnostic Procedures
- 44 Preventive Immunisations/Medications
- 45 Observe/Educate/Advice/Diet
- 46 Consult with Primary Care Provider
- 47 Consultation with Specialist
- 48 Clarification/Discuss Patient's RFE
- 49 Other Preventive Procedures
- 50 Medicat-Script/Reqst/Renew/Inject
- 51 Incise/Drain/Flush/Aspirate
- 52 Excise/Remove/Biopsy/Destruction/Debride
- 53 Instrument/Catheter/Intubate/Dilate
- 54 Repair/Fixate-Suture/Cast/Prosthetic
- 55 Local Injection/Infiltration
- 56 Dress/Press/Compress/Tamponade
- 57 Physical Medicine/Rehabilitation
- 58 Therapeutic Counselling/Listening
- 59 Other Therapeutic Procedure NEC
- 60 Results Tests/Procedures
- 61 Results Exam/Test/Record
- 62 Administrative Procedure
- 63 Follow-up Encounter Unspecified
- 64 Encounter Initiated by Provider
- 65 Encounter Initiated third person
- 66 Refer to Other Provider (EXCL. M.D.)
- 67 Referral to Physician/Specialist/Clinic/Hospital
- 68 Other Referrals NEC
- 69 Other Reason for Encounter NEC

General and Unspecified **A**

- A01 Pain general/multiple sites
- A02 Chills
- A03 Fever
- A04 Weakness/tiredness general
- A05 Feeling ill
- A06 Fainting/syncope
- A07 Coma
- A08 Swelling
- A09 Sweating problem
- A10 Bleeding/haemorrhage NOS
- A11 Chest pain NOS
- A13 Concern/fear medical treatment
- A16 Irritable infant
- A18 Concern about appearance
- A20 Euthanasia request/discussion
- A21 Risk factor for malignancy
- A23 Risk factor NOS
- A25 Fear of death/dying
- A26 Fear of cancer NOS
- A27 Fear of other disease NOS
- A28 Limited function/disability NOS
- A29 General symptom/complaint other
- A70 Tuberculosis
- A71 Measles
- A72 Chickenpox
- A73 Malaria
- A74 Rubella
- A75 Infectious mononucleosis
- A76 Viral exanthem other
- A77 Viral disease other/NOS
- A78 Infectious disease other/NOS
- A79 Malignancy NOS
- A80 Trauma/injury NOS
- A81 Multiple trauma/injuries
- A82 Secondary effect of trauma
- A84 Poisoning by medical agent
- A85 Adverse effect medical agent
- A86 Toxic effect non-medicinal substance
- A87 Complication of medical treatment
- A88 Adverse effect physical factor
- A89 Effect prosthetic device
- A90 Congenital anomaly OS/multiple
- A91 Abnormal result investigation NOS
- A92 Allergy/allergic reaction NOS
- A93 Premature newborn
- A94 Perinatal morbidity other
- A95 Perinatal mortality
- A96 Death
- A97 No disease
- A98 Health maintenance/prevention
- A99 General disease NOS

Blood, Blood Forming Organs and Immune Mechanism **B**

- B02 Lymph gland(s) enlarged/painful
- B04 Blood symptom/complaint
- B25 Fear of aids/HIV
- B26 Fear cancer blood/lymph
- B27 Fear blood/lymph disease other
- B28 Limited function/disability
- B29 Symp/compl lymph/immune other
- B70 Lymphadenitis acute
- B71 Lymphadenitis non-specific
- B72 Hodgkin's disease/lymphoma
- B73 Leukaemia
- B74 Malignant neoplasm blood other
- B75 Benign/unspecified neoplasm blood
- B76 Ruptured spleen traumatic
- B77 Injury blood/lymph/spleen other
- B78 Hereditary haemolytic anaemia
- B79 Congen.anom. blood/lymph other
- B80 Iron deficiency anaemia
- B81 Anaemia, Vitamin B12/folate def.
- B82 Anaemia other/unspecified
- B83 Purpura/coagulation defect
- B84 Unexplained abnormal white cells
- B87 Splenomegaly
- B90 HIV-infection/aids
- B99 Blood/lymph/spleen disease other

PROCESS CODES

SYMPTOMS/COMPLAINTS

INFECTIONS

NEOPLASMS

INJURIES

CONGENITAL ANOMALIES

OTHER DIAGNOSES

Digestive **D**

- D01 Abdominal pain/cramps general
- D02 Abdominal pain epigastric
- D03 Heartburn
- D04 Rectal/anal pain
- D05 Perianal itching
- D06 Abdominal pain localized other
- D07 Dyspepsia/indigestion
- D08 Flatulence/gas/belching
- D09 Nausea
- D10 Vomiting
- D11 Diarrhoea
- D12 Constipation
- D13 Jaundice
- D14 Haematemesis/vomiting blood
- D15 Melaena
- D16 Rectal bleeding
- D17 Incontinence of bowel
- D18 Change faeces/bowel movements
- D19 Teeth/gum symptom/complaint
- D20 Mouth/tongue/lip symptom/compl.
- D21 Swallowing problem
- D23 Hepatomegaly
- D24 Abdominal mass NOS
- D25 Abdominal distension
- D26 Fear of cancer of digestive system
- D27 Fear of digestive disease other
- D28 Limited function/disability (d)
- D29 Digestive symptom/complaint other
- D70 Gastrointestinal infection
- D71 Mumps
- D72 Viral hepatitis
- D73 Gastroenteritis presumed infection
- D74 Malignant neoplasm stomach
- D75 Malignant neoplasm colon/rectum
- D76 Malignant neoplasm pancreas
- D77 Malign. neoplasm digest other/NOS
- D78 Neoplasm digest benign/uncertain
- D79 Foreign body digestive system
- D80 Injury digestive system other
- D81 Congen. anomaly digestive system
- D82 Teeth/gum disease
- D83 Mouth/tongue/lip disease
- D84 Oesophagus disease
- D85 Duodenal ulcer
- D86 Peptic ulcer other
- D87 Stomach function disorder
- D88 Appendicitis
- D89 Inguinal hernia
- D90 Hiatus hernia
- D91 Abdominal hernia other
- D92 Diverticular disease
- D93 Irritable bowel syndrome
- D94 Chronic enteritis/ulcerative colitis
- D95 Anal fissure/perianal abscess
- D96 Worms/other parasites
- D97 Liver disease NOS
- D98 Cholecystitis/cholelithiasis
- D99 Disease digestive system, other

Eye

- F01 Eye pain
- F02 Red eye
- F03 Eye discharge
- F04 Visual floaters/spots
- F05 Visual disturbance other
- F13 Eye sensation abnormal
- F14 Eye movements abnormal
- F15 Eye appearance abnormal
- F16 Eyelid symptom/complaint
- F17 Glasses symptom/complaint
- F18 Contact lens symptom/complaint
- F27 Fear of eye disease
- F28 Limited function/disability (f)
- F29 Eye symptom/complaint other
- F70 Conjunctivitis infectious
- F71 Conjunctivitis allergic
- F72 Blepharitis/stye/chalazion
- F73 Eye infection/inflammation other
- F74 Neoplasm of eye/adnexa
- F75 Contusion/haemorrhage eye
- F76 Foreign body in eye
- F79 Injury eye other
- F80 Blocked lacrimal duct of infant
- F81 Congenital anomaly eye other
- F82 Detached retina
- F83 Retinopathy
- F84 Macular degeneration
- F85 Corneal ulcer
- F86 Trachoma
- F91 Refractive error
- F92 Cataract
- F93 Glaucoma
- F94 Blindness
- F95 Strabismus
- F99 Eye/adnexa disease, other

Ear **H**

- H01 Ear pain/earache
- H02 Hearing complaint
- H03 Tinnitus, ringing/buzzing ear
- H04 Ear discharge
- H05 Bleeding ear
- H13 Plugged feeling ear
- H15 Concern with appearance of ears
- H27 Fear of ear disease
- H28 Limited function/disability other
- H29 Ear symptom/complaint other
- H70 Otitis externa
- H71 Acute otitis media/myringitis
- H72 Serous otitis media
- H73 Eustachian salpingitis
- H74 Chronic otitis media
- H75 Neoplasm of ear
- H76 Foreign body in ear
- H77 Perforation ear drum
- H78 Superficial injury of ear
- H79 Ear injury other
- H80 Congenital anomaly of ear
- H81 Excessive ear wax
- H82 Vertiginous syndrome
- H83 Otosclerosis
- H84 Presbycusis
- H85 Acoustic trauma
- H86 Deafness
- H99 Ear/mastoid disease, other

Cardiovascular **K**

- K01 Heart pain
- K02 Pressure/tightness of heart
- K03 Cardiovascular pain NOS
- K04 Palpitations/awareness of heart
- K05 Irregular heartbeat other
- K06 Prominent veins
- K07 Swollen ankles/oedema
- K22 Risk factor cardiovascular disease
- K24 Fear of heart disease
- K25 Fear of hypertension
- K27 Fear cardiovascular disease other
- K28 Limited function/disability (k)
- K29 Cardiovascular sympt./complt. other
- K70 Infection of circulatory system
- K71 Rheumatic fever/heart disease
- K72 Neoplasm cardiovascular
- K73 Congenital anomaly cardiovascular
- K74 Ischaemic heart disease w. angina
- K75 Acute myocardial infarction
- K76 Ischaemic heart disease w/o angina
- K77 Heart failure
- K78 Atrial fibrillation/flutter
- K79 Paroxysmal tachycardia
- K80 Cardiac arrhythmia NOS
- K81 Heart/arterial murmur NOS
- K82 Pulmonary heart disease
- K83 Heart valve disease NOS
- K84 Heart disease other
- K85 Elevated blood pressure
- K86 Hypertension uncomplicated
- K87 Hypertension complicated
- K88 Postural hypotension
- K89 Transient cerebral ischaemia
- K90 Stroke/cerebrovascular accident
- K91 Cerebrovascular disease
- K92 Atherosclerosis/PVD
- K93 Pulmonary embolism
- K94 Phlebitis/thrombophlebitis
- K95 Varicose veins of leg
- K96 Haemorrhoids
- K99 Cardiovascular disease other

Musculoskeletal **L**

- L01 Neck symptom/complaint
- L02 Back symptom/complaint
- L03 Low back symptom/complaint
- L04 Chest symptom/complaint
- L05 Flank/axilla symptom/complaint
- L07 Jaw symptom/complaint
- L08 Shoulder symptom/complaint
- L09 Arm symptom/complaint
- L10 Elbow symptom/complaint
- L11 Wrist symptom/complaint
- L12 Hand/finger symptom/complaint
- L13 Hip symptom/complaint
- L14 Leg/thigh symptom/complaint
- L15 Knee symptom/complaint
- L16 Ankle symptom/complaint
- L17 Foot/toe symptom/complaint
- L18 Muscle pain
- L19 Muscle symptom/complaint NOS
- L20 Joint symptom/complaint NOS
- L26 Fear of cancer musculoskeletal
- L27 Fear musculoskeletal disease other
- L28 Limited function/disability (l)
- L29 Symp/complt. Musculoskeletal other
- L70 Infections musculoskeletal system
- L71 Malignant neoplasm musculoskeletal
- L72 Fracture: radius/ulna
- L73 Fracture: tibia/fibula
- L74 Fracture: hand/foot bone
- L75 Fracture: femur
- L76 Fracture: other
- L77 Sprain/strain of ankle
- L78 Sprain/strain of knee
- L79 Sprain/strain of joint NOS
- L80 Dislocation/subluxation
- L81 Injury musculoskeletal NOS
- L82 Congenital anomaly musculoskeletal
- L83 Neck syndrome
- L84 Back syndrome w/o radiating pain
- L85 Acquired deformity of spine
- L86 Back syndrome with radiating pain
- L87 Bursitis/tendinitis/synovitis NOS
- L88 Rheumatoid/seropositive arthritis
- L89 Osteoarthritis of hip
- L90 Osteoarthritis of knee
- L91 Osteoarthritis other
- L92 Shoulder syndrome
- L93 Tennis elbow
- L94 Osteochondrosis
- L95 Osteoporosis
- L96 Acute internal damage knee
- L97 Neoplasm benign/unspec musculo.
- L98 Acquired deformity of limb
- L99 Musculoskeletal disease, other

Neurological **N**

- N01 Headache
- N03 Pain face
- N04 Restless legs
- N05 Tingling fingers/feet/toes
- N06 Sensation disturbance other
- N07 Convulsion/seizure
- N08 Abnormal involuntary movements
- N16 Disturbance of smell/taste
- N17 Vertigo/dizziness
- N18 Paralysis/weakness
- N19 Speech disorder
- N26 Fear cancer neurological system
- N27 Fear of neurological disease other
- N28 Limited function/disability (n)
- N29 Neurological symptom/complt. other
- N70 Poliomyelitis
- N71 Meningitis/encephalitis
- N72 Tetanus
- N73 Neurological infection other
- N74 Malignant neoplasm nervous system
- N75 Benign neoplasm nervous system
- N76 Neoplasm nervous system unspec.
- N79 Concussion
- N80 Head injury other
- N81 Injury nervous system other
- N85 Congenital anomaly neurological
- N86 Multiple sclerosis
- N87 Parkinsonism
- N88 Epilepsy
- N89 Migraine
- N90 Cluster headache
- N91 Facial paralysis/bell's palsy
- N92 Trigeminal neuralgia
- N93 Carpal tunnel syndrome
- N94 Peripheral neuritis/neuropathy
- N95 Tension headache
- N99 Neurological disease, other

Psychological	P	Skin	S	Urological	U
P01 Feeling anxious/nervous/tense		S01 Pain/tenderness of skin		U01 Dysuria/painful urination	X75 Malignant neoplasm cervix
P02 Acute stress reaction		S02 Pruritus		U02 Urinary frequency/urgency	X76 Malignant neoplasm breast female
P03 Feeling depressed		S03 Warts		U04 Incontinence urine	X77 Malignant neoplasm genital other (f)
P04 Feeling/behaving irritable/angry		S04 Lump/swelling localized		U05 Urination problems other	X78 Fibromyoma uterus
P05 Senility, feeling/behaving old		S05 Lumps/swellings generalized		U06 Haematuria	X79 Benign neoplasm breast female
P06 Sleep disturbance		S06 Rash localized		U07 Urine symptom/complaint other	X80 Benign neoplasm female genital
P07 Sexual desire reduced		S07 Rash generalized		U08 Urinary retention	X81 Genital neoplasm oth/unspecified (f)
P08 Sexual fulfilment reduced		S08 Skin colour change		U13 Bladder symptom/complaint other	X82 Injury genital female
P09 Sexual preference concern		S09 Infected finger/toe		U14 Kidney symptom/complaint	X83 Congenital anomaly genital female
P10 Stammering/stuttering/tic		S10 Boil/carbuncle		U26 Fear of cancer of urinary system	X84 Vaginitis/vulvitis NOS
P11 Eating problem in child		S11 Skin infection post-traumatic		U27 Fear of urinary disease other	X85 Cervical disease NOS
P12 Bedwetting/enuresis		S12 Insect bite/sting		U28 Limited function/disability urinary	X86 Abnormal cervix smear
P13 Encopresis/bowel training problem		S13 Animal/human bite		U29 Urinary symptom/complaint other	X87 Uterovaginal prolapse
P15 Chronic alcohol abuse		S14 Burn/scald		U70 Pyelonephritis/pyelitis	X88 Fibrocystic disease breast
P16 Acute alcohol abuse		S15 Foreign body in skin		U71 Cystitis/urinary infection other	X89 Premenstrual tension syndrome
P17 Tobacco abuse		S16 Bruise/contusion		U72 Urethritis	X90 Genital herpes female
P18 Medication abuse		S17 Abrasion/scratch/blister		U75 Malignant neoplasm of kidney	X91 Condylomata acuminata female
P19 Drug abuse		S18 Laceration/cut		U76 Malignant neoplasm of bladder	X92 Chlamydia infection genital (f)
P20 Memory disturbance		S19 Skin injury other		U77 Malignant neoplasm urinary other	X99 Genital disease female, other
P22 Child behaviour symptom/complaint		S20 Corn/callosity		U78 Benign neoplasm urinary tract	Male Genital
P23 Adolescent behav. Symptom/compl.		S21 Skin texture symptom/complaint		U79 Neoplasm urinary tract NOS	Y
P24 Specific learning problem		S22 Nail symptom/complaint		U80 Injury urinary tract	Y01 Pain in penis
P25 Phase of life problem adult		S23 Hair loss/baldness		U85 Congenital anomaly urinary tract	Y02 Pain in testis/scrotum
P27 Fear of mental disorder		S24 Hair/scalp symptom/complaint		U88 Glomerulonephritis/nephrosis	Y03 Urethral discharge
P28 Limited function/disability (p)		S26 Fear of cancer of skin		U90 Orthostatic albumin./proteinuria	Y04 Penis symptom/complaint other
P29 Psychological symptom/compl't other		S27 Fear of skin disease other		U95 Urinary calculus	Y05 Scrotum/testis sympt/compl't. other
P70 Dementia		S28 Limited function/disability (s)		U98 Abnormal urine test NOS	Y06 Prostate symptom/complaint
P71 Organic psychosis other		S29 Skin symptom/complaint other		U99 Urinary disease, other	Y07 Impotence NOS
P72 Schizophrenia		S70 Herpes zoster		Pregnancy, Childbearing, Family Planning	Y08 Sexual function sympt./compl't. (m)
P73 Affective psychosis		S71 Herpes simplex		W	Y10 Infertility/subfertility male
P74 Anxiety disorder/anxiety state		S72 Scabies/other acariasis		W01 Question of pregnancy	Y13 Sterilization male
P75 Somatization disorder		S73 Pediculosis/skin infestation other		W02 Fear of pregnancy	Y14 Family planning male other
P76 Depressive disorder		S74 Dermatophytosis		W03 Antepartum bleeding	Y16 Breast symptom/complaint male
P77 Suicide/suicide attempt		S75 Moniliasis/candidiasis skin		W05 Pregnancy vomiting/nausea	Y24 Fear of sexual dysfunction male
P78 Neuraesthesia/surmenage		S76 Skin infection other		W10 Contraception postcoital	Y25 Fear sexually transmitted dis. male
P79 Phobia/compulsive disorder		S77 Malignant neoplasm of skin		W11 Contraception oral	Y26 Fear of genital cancer male
P80 Personality disorder		S78 Lipoma		W12 Contraception intrauterine	Y27 Fear of genital disease male other
P81 Hyperkinetic disorder		S79 Neoplasm skin benign/unspecified		W13 Sterilization	Y28 Limited function/disability (y)
P82 Post-traumatic stress disorder		S80 Solar keratosis/sunburn		W14 Contraception other	Y29 Genital sympt./compl't. male other
P85 Mental retardation		S81 Haemangioma/lymphangioma		W15 Infertility/subfertility	Y70 Syphilis male
P86 Anorexia nervosa/bulimia		S82 Naevus/mole		W17 Post-partum bleeding	Y71 Gonorrhoea male
P98 Psychosis NOS/other		S83 Congenital skin anomaly other		W18 Post-partum symptom/complaint oth.	Y72 Genital herpes male
P99 Psychological disorders, other		S84 Impetigo		W19 Breast/lactation symptom/complaint	Y73 Prostatitis/seminal vesiculitis
Respiratory	R	S85 Pilonidal cyst/fistula		W21 Concern body image in pregnancy	Y74 Orchitis/epididymitis
R01 Pain respiratory system		S86 Dermatitis seborrhoic		W22 Fear complications of pregnancy	Y75 Balanitis
R02 Shortness of breath/dyspnoea		S87 Dermatitis/atopic eczema		W28 Limited function/disability (w)	Y76 Condylomata acuminata male
R03 Wheezing		S88 Dermatitis contact/allergic		W29 Pregnancy symptom/complaint other	Y77 Malignant neoplasm prostate
R04 Breathing problem, other		S89 Diaper rash		W70 Puerperal infection/sepsis	Y78 Malign neoplasm male genital other
R05 Cough		S90 Pityriasis rosea		W71 Infection complicating pregnancy	Y79 Benign/unspec. neoplasm gen. (m)
R06 Nose bleed/epistaxis		S91 Psoriasis		W72 Malignant neoplasm relate to preg.	Injury male genital
R07 Sneezing/nasal congestion		S92 Sweat gland disease		W73 Benign/unspec. neoplasm/pregnancy	Y81 Phimosi/redundant prepuce
R08 Nose symptom/complaint other		S93 Sebaceous cyst		W75 Injury complicating pregnancy	Y82 Hypospadias
R09 Sinus symptom/complaint		S94 Ingrowing nail		W76 Congenital anomaly complicate preg.	Y83 Undescended testicle
R21 Throat symptom/complaint		S95 Molluscum contagiosum		W78 Pregnancy	Y84 Congenital genl anomaly (m) other
R23 Voice symptom/complaint		S96 Acne		W79 Unwanted pregnancy	Y85 Benign prostatic hypertrophy
R24 Haemoptysis		S97 Chronic ulcer skin		W80 Ectopic pregnancy	Y86 Hydrocoele
R25 Sputum/phlegm abnormal		S98 Urticaria		W81 Toxaemia of pregnancy	Y99 Genital disease male, other
R26 Fear of cancer respiratory system		S99 Skin disease, other		W82 Abortion spontaneous	Social Problems
R27 Fear of respiratory disease, other		Endocrine/Metabolic and Nutritional	T	W83 Abortion induced	Z
R28 Limited function/disability (r)		T01 Excessive thirst		W84 Pregnancy high risk	Z01 Poverty/financial problem
R29 Respiratory symptom/complaint oth.		T02 Excessive appetite		W85 Gestational diabetes	Z02 Food/water problem
R71 Whooping cough		T03 Loss of appetite		W90 Uncomplicate labour/delivery live	Z03 Housing/ neighbourhood problem
R72 Strep throat		T04 Feeding problem of infant/child		W91 Uncomplicate labour/delivery still	Z04 Social cultural problem
R73 Boil/abscess nose		T05 Feeding problem of adult		W92 Complicate labour/ delivery live/birth	Z05 Work problem
R74 Upper respiratory infection acute		T07 Weight gain		W93 Complicate labour/delivery stillbirth	Z06 Unemployment problem
R75 Sinusitis acute/chronic		T08 Weight loss		W94 Puerperal mastitis	Z07 Education problem
R76 Tonsillitis acute		T10 Growth delay		W95 Breast disorder in pregnancy other	Z08 Social welfare problem
R77 Laryngitis/tracheitis acute		T11 Dehydration		W96 Complications of puerperium other	Z09 Legal problem
R78 Acute bronchitis/bronchiolitis		T26 Fear of cancer of endocrine system		W99 Disorder pregnancy/delivery, other	Z10 Health care system problem
R79 Chronic bronchitis		T27 Fear endocrine/metabolic dis other		Female Genital	Z11 Compliance/being ill problem
R80 Influenza		T28 Limited function/disability (t)		X	Z12 Relationship problem with partner
R81 Pneumonia		T29 Endocrine/met./sympt/compl't other		X01 Genital pain female	Z13 Partner's behaviour problem
R82 Pleurisy/pleural effusion		T70 Endocrine infection		X02 Menstrual pain	Z14 Partner illness problem
R83 Respiratory infection other		T71 Malignant neoplasm thyroid		X03 Intermenstrual pain	Z15 Loss/death of partner problem
R84 Malignant neoplasm bronchus/lung		T72 Benign neoplasm thyroid		X04 Painful intercourse female	Z16 Relationship problem with child
R85 Malinant neoplasm respiratory, other		T73 Neoplasm endocrine oth/unspecified		X05 Menstruation absent/scanty	Z18 Illness problem with child
R86 Benign neoplasm respiratory		T78 Thyroglossal duct/cyst		X06 Menstruation excessive	Z19 Loss/death of child problem
R87 Foreign body nose/larynx/bronch		T80 Congenital anom endocrine/metab.		X07 Menstruation irregular/frequent	Z20 Relationship prob. parent/family
R88 Injury respiratory other		T81 Goitre		X08 Intermenstrual bleeding	Z21 Behaviour problem parent/family
R89 Congenital anomaly respiratory		T82 Obesity		X09 Premenstrual symptom/complaint	Z22 Illness problem parent/family
R90 Hypertrophy tonsils/adenoids		T83 Overweight		X10 Postponement of menstruation	Z23 Loss/death parent/family member
R92 Neoplasm respiratory unspecified		T85 Hyperthyroidism/thyrotoxicosis		X11 Menopausal symptom/complaint	Z24 Relationship problem friend
R95 Chronic obstructive pulmonary dis		T86 Hypothyroidism/myxoedema		X12 Postmenopausal bleeding	Z25 Assault/harmful event problem
R96 Asthma		T87 Hypoglycaemia		X13 Postcoital bleeding	Z27 Fear of a social problem
R97 Allergic rhinitis		T89 Diabetes insulin dependent		X14 Vaginal discharge	Z28 Limited function/disability (z)
R98 Hyperventilation syndrome		T90 Diabetes non-insulin dependent		X15 Vaginal symptom/complaint other	Z29 Social problem NOS
R99 Respiratory disease other		T91 Vitamin/nutritional deficiency		X16 Vulval symptom/complaint	Abbreviations
PROCESS CODES		T92 Gout		X17 Pelvis symptom/complaint female	Anom anomaly
SYMPTOMS/COMPLAINTS		T93 Lipid disorder		X18 Breast pain female	behav. behaviour
INFECTIONS		T99 Endocrine/metab/nutrit. dis. other		X19 Breast lump/mass female	bronch. bronchus
NEOPLASMS				X20 Nipple symptom/complaint female	complicat. complication
INJURIES				X21 Breast symptom/compl't. female other	congen. congenital
CONGENITAL ANOMALIES				X22 Concern breast appearance female	dis. disease
OTHER DIAGNOSES				X23 Fear sexually transmitted disease (f)	eval. evaluation
				X24 Fear of sexual dysfunction female	exam. examination
				X25 Fear of genital cancer female	gen. genital
				X26 Fear of breast cancer female	malig. malignant
				X27 Fear genital/breast disease other (f)	metab. metabolic
				X28 Limited function/disability (x)	musculo. musculoskeletal
				X29 Genital symptom/compl't female oth.	NEC not elsewhere classified
				X70 Syphilis female	NOS not otherwise specified
				X71 Gonorrhoea female	nutrit. nutrition
				X72 Genital candidiasis female	oth. other
				X73 Genital trichomoniasis female	preg. pregnancy
				X74 Pelvic inflammatory disease	prob. problem
					RFE reason for encounter
					sympt. symptom
					unspec. unspecified
					w with
					w/o without

ICPC-2 Process 2016

Version beta. 1 March 1, 2017

Classification

30	medical examination / health evaluation complete
31	medical examination / health evaluation partial
32	sensitivity test
33	microbiological/immunological test
34	blood test
35	urine test
36	faeces test
37	histological/exfoliative cytology
38	other laboratory test nec
39	physical function test
40	diagnostic endoscopy
41	diagnostic radiology/imaging
42	electrical tracing
43	other diagnostic procedure
44	preventive immunization/medication
45	observation / health education / advice / diet
46	consultation with primary care provider
47	consultation with specialist
48	clarification / discussion of patient's RFE / demand
49	other preventive procedure
50	medication / prescription / renewal / injection
51	incision / drainage / flushing / aspiration / removal body fluid
52	excision / tissue removal / biopsy / destruction / desbridement / cauterization
53	instrumentation / catheterization / intubation / dilatation
54	repair/fixation-suture/cast/prosthetic device (apply/remove)
55	local injection / infiltration
56	dressing / pressure / compression / tamponade
57	physical medicine / rehabilitation
58	therapeutic counselling / listening
59	other therapeutic procedure / minor surgery nec
60	result test / procedure
61	result examination / test / record / letter from other provider
62	administrative procedure
63	follow-up encounter unspecified
64	encounter / problem initiated by provider
65	encounter / problem initiated by other than patient / provider
66	referral to other provider / nurse / therapist / social worker
67	referral to physician / specialist / clinic / hospital
68	other referral nec
69	other process nec

nec: not elsewhere classified

ICPC-2 Process 2016

Version beta. 1 March 1, 2017

Classified terms

Code	Preferred label
30.000	complete check-up
30.001	health evaluation complete
30.002	well-baby exam
30.003	school health care exam
31.000	focused examination
31.001	health evaluation partial
31.002	specific body system examination
31.003	clinical screening of single health problem
31.004	heart auscultation
31.005	blood pressure measurement
31.006	body temperature measurement
32.000	sensitivity test
32.001	skin prick-test
32.002	patch test
32.003	radioallergosorbent (RAST) test
32.004	food challenge
32.005	methacholine challenge test
32.006	Mantoux test
33.000	microbiological test
33.001	immunological test
33.002	blood culture
33.003	microbiological test of feces
33.004	microbiological test of sputum
33.005	microbiological test of throat swab
33.006	microbiological test of vaginal swab
33.007	antigen
33.008	antibody testing
33.009	testing for human immunodeficiency virus (HIV)
33.010	testing for human papilloma virus (HPV)
33.011	antibody titer
33.012	testing for Hepatitis B
34.000	blood test
34.001	blood group and type
34.002	erythrocyte sedimentation rate (ESR)
34.003	white blood cell count (WBC)
34.004	blood hormone level
34.005	blood enzyme level
34.006	blood drug level
34.007	blood alcohol level
34.008	C-reactive protein (CRP)
34.009	prothrombin time (PTT)
34.010	D-dimer
34.011	arterial blood gases
34.012	calculation of creatinine clearance
34.013	blood pregnancy test
34.014	basic metabolic panel
35.000	urine test
35.001	urine strip test
35.002	urine drug test
35.003	urine pregnancy test
35.004	urine albumin/creatinine ratio
36.000	faeces test
36.001	stool parasite test
36.002	stool ova test
36.003	stool cyst test
36.004	test for occult blood
37.000	histological-exfoliative cytology

37.001	tissue pathology-cytology
37.002	fluid pathology-cytology
37.003	biopsy pathology-cytology
37.004	puncture pathology-cytology
37.005	excision pathology-cytology
37.006	swabbing pathology-cytology
37.007	urine cytology
37.008	sputum pathology-cytology
37.009	semen analysis
38.000	other laboratory test nec
38.001	antenatal chromosome screening
38.002	chromosome test
38.003	genetic test
38.004	DNA test
38.005	paternity test
38.006	helicobacter pylori breath test
38.007	sweat test
38.008	tear drop test
39.000	physical function test
39.001	audiometry
39.002	visual field test
39.003	urinary flowmetry
39.004	spirometry
39.005	calorimetric test
39.006	vestibular function test
39.007	color vision test
39.008	visual test
39.009	tonometry
39.010	typanometry
40.000	diagnostic endoscopy
40.001	anoscopy
40.002	arthroscopy
40.003	bronchoscopy
40.004	colonoscopy
40.005	colposcopy
40.006	gastrosocopy
40.007	hysteroscopy
40.008	laparoscopy
40.009	laryngoscopy
40.010	mediastinoscopy
40.011	pharyngoscopy
40.012	rectoscopy
40.013	rhinoscopy
40.014	sigmoidoscopy
40.015	tracheoscopy
41.000	diagnostic radiology
41.001	imaging
41.002	angiography
41.003	nuclear medicine
41.004	x-rays
41.005	ultrasound
41.006	magnetic resonance imaging (MRI)
41.007	cardiac scintigraphy
41.008	isotope scanning
41.009	bone scintigraphy
41.010	thyroid scintigraphy
41.011	thermography
41.012	computed tomography (CT)
41.013	positron emission tomography (PET)
42.000	electrical tracing
42.001	electrocardiogram (ECG)
42.002	exercise electrocardiogram
42.003	electroencephalogram (EEG)
42.004	electromyogram (EMG)
42.005	electronystagmogram (ENG)
42.006	Holter monitoring

43.000	other diagnostic procedure
43.001	dermatoscopy
43.002	assessment of activities of daily living
43.003	genealogical chart
43.004	diagnostic laparotomy
43.005	ophthalmoscopy
43.006	skin photo
43.007	anxiety test
43.008	depression test
43.009	dementia test
43.010	intelligence test
44.000	preventive immunization
44.001	preventive medication
44.002	desensitization
44.003	active or passive immunization
44.004	malaria prophylaxis
44.005	prophylactic treatment with drugs
45.000	health observation
45.001	health education
45.002	health advice
45.003	diet
45.004	advice on healthy behaviour
45.005	advice regarding social problems
45.006	advice on pregnancy
45.007	advice on family planning
45.008	advice on occupational health
45.009	advice regarding the use of health services
45.010	watchful waiting
45.011	advice on prevention of health problems
46.000	consultation with primary care provider
46.001	telemedicine consultation with primary care provider
47.000	consultation with specialist
47.001	telemedicine consultation with specialist
48.000	clarification of patient's reason for encounter
48.001	discussion of patient's demand
48.002	discussion about the need of screening tests
49.000	other preventive procedure
49.001	assessment of health conditions and risks
49.002	assessment of environment conditions and risks
49.003	medication review
50.000	medication
50.001	prescription
50.002	renewal
50.003	injection
50.004	administration of medication
50.005	injection of medication with systemic effect
50.006	prescribing of medication
50.007	renewal of medication
51.000	Incision
51.001	drainage
51.002	flushing
51.003	aspiration of body fluid
51.004	aspiration of a hematoma
51.005	incision of an abscess
51.006	irrigation of an eye
51.007	irrigation of an ear
51.008	paracentesis
51.009	ascitic fluid aspiration
51.010	lumbar puncture
51.011	puncture

51.012 aspiration of sinus
 51.013 aspiration of a ganglion
 51.014 aspiration of a cyst
 51.015 aspiration of a bursa
 51.016 aspiration of a joint
 51.017 aspiration of the stomach
 51.018 aspiration of the lungs
 51.019 aspiration of the bladder
 51.020 venesection
 51.021 thoracentesis
 51.022 tympanostomy
 51.023 amniocentesis
 52.000 excision
 52.001 biopsy
 52.002 tissue destruction
 52.003 tissue removal
 52.004 cauterisation
 52.005 amputation
 52.006 maggot therapy
 52.007 biopsy of skin
 52.008 biopsy of an organ
 52.009 chemical cauterisation
 52.010 electric cauterisation
 52.011 cold cauterisation
 52.012 laser cauterisation
 52.013 curettage of the skin
 52.014 uterine curettage
 52.015 autolytic debridement
 52.016 chemical debridement
 52.017 surgical debridement
 52.018 mechanical debridement
 52.019 nerve destruction
 52.020 vein destruction
 52.021 embolectomy
 52.022 vein stripping
 52.023 excision, removal of tissue
 52.024 excision, removal of nail
 52.025 tooth extraction
 52.026 sterilization
 53.000 catheterization
 53.001 intubation
 53.002 dilatation
 53.003 instrumentation
 53.004 intravenous cannulation
 53.005 catheterization
 53.006 urethral dilatation
 53.007 uterine cervical dilatation
 53.008 lacrimal dilatation
 53.009 tympanostomy tube insertion or removal
 53.010 endotracheal intubation
 53.011 enema
 53.012 artificial rupture of the amniotic membranes
 53.013 tracheotomy
 54.000 repair (apply/remove)
 54.001 fixation (apply/remove)
 54.002 suture (apply/remove)
 54.003 cast (apply/remove)
 54.004 prosthetic device (apply/remove)
 54.005 hearing aids and device
 54.006 technical aids and device
 54.007 visual aids and device
 54.008 brace
 54.009 sling
 54.010 strip-plaster
 54.011 taping
 54.012 surgical glue suture

54.013 hormonal implant
 54.014 dental implantation
 54.015 insertion of vaginal pessary
 54.016 orthosis
 54.017 stent
 54.018 Intra-uterine device (IUD)
 54.019 orthopedic prosthesis
 54.020 applying hernia truss
 54.021 taping for sprains
 54.022 treatment of fracture
 54.023 reduction of luxation
 55.000 local injection
 55.001 local infiltration
 55.002 nerve block
 55.003 joint injection
 55.004 bursa injection
 55.005 tendon sheath injection
 55.006 skin injection
 55.007 subcutaneous tissue injection
 55.008 epidural injection
 55.009 sclerosing injection for varices
 56.000 dressing
 56.001 pressure
 56.002 compression
 56.003 tamponade
 56.004 support bandage
 56.005 wound bandage
 56.006 application of an eye patch
 57.000 rehabilitation
 57.001 chiropractic
 57.002 fitness training
 57.003 muscle strengthening
 57.004 ergotherapy
 57.005 muscle exercise
 57.006 physical medicine
 57.007 podiatry
 57.008 physiotherapy
 57.009 specific disability rehabilitation
 57.010 nerve stimulator
 57.011 electronic muscle stimulator
 57.012 speech therapy
 57.013 use of heat for therapeutic purposes
 57.014 use of ultrasound for therapeutic purposes
 57.015 use of electrical current for therapeutic purposes
 57.016 use of cold for therapeutic purposes
 58.000 therapeutic counselling
 58.001 therapeutic listening
 58.002 psychotherapy
 58.003 therapeutic counseling for a specific disease
 58.004 motivational interview
 58.005 supportive psychotherapy
 58.006 psychosocial alcohol rehabilitation
 58.007 psychosocial drug rehabilitation
 59.000 other therapeutic procedure
 59.001 minor surgery nec
 59.002 delivery
 59.003 acupuncture
 59.004 caesarean section
 59.005 plastic surgery
 59.006 dialysis
 59.007 removal of a foreign body
 59.008 oxygen therapy
 59.009 cardiopulmonary resuscitation

59.010 blood transfusion
 60.000 test result
 60.001 result of procedure
 61.000 result examination from another provider
 61.001 test from another provider
 61.002 record from another provider
 61.003 letter from another provider
 62.000 administrative procedure
 62.001 sick leave document
 62.002 death certificate
 62.003 certificate for driver's license
 62.004 billing issues
 62.005 health questionnaire
 62.006 health record issues
 62.007 filling out documents
 62.008 filling out forms
 63.000 follow-up encounter
 64.000 problem initiated by provider
 64.001 encounter initiated by provider
 65.000 problem initiated by third party
 65.001 encounter initiated by third party
 65.002 referral by family
 65.003 referral by nurse
 65.004 referral by social worker
 65.005 referral by psychologist
 66.000 referral to a provider (not doctor)
 66.001 referral to a nurse
 66.002 referral to a physiotherapist
 66.003 referral to an occupational therapist
 66.004 referral to a chiropractor
 66.005 referral to a social worker
 66.006 referral to an optician
 66.007 referral to a midwife
 66.008 referral to a dietician
 66.009 referral to a dentist
 66.010 referral to a home health worker
 66.011 referral to an orthodontist
 66.012 referral to a psychologist
 67.000 referral to physician
 67.001 referral to a specialist
 67.003 referral to a clinic
 67.004 referral to hospital
 68.000 referral to patient associations
 68.001 referral to unemployment service
 68.002 referral to hospice
 68.003 referral to a nursing home
 68.004 referral to a non-medical service
 68.005 referral to an institution for rehabilitation
 69.000 other process nec

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Process group of the Wonca International Classification Committee <http://ph3c.org>

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Adaptation :
 Melissa P. Resnick (USA) &
 Marc Jamoulle, Belgium

We reproduced the list of titles of each section of the Q-codes in a tabular list comparable to that produced with the ICPC-2 in A4 format and known as "desk copy". Both tabular lists are used to have on hand for an easy coding process of literature in General Practice Family Medicine.

Each Q-Code has a definition. Please refer to Jamouille M, Resnick MP. General Practice / Family Medicine Multilingual Terminology. Charleroi: Care Editions; 2016. 62 p

Consider <http://3cgp.docpatient.net> for further informations, user guide and other languages.

<p>QC PATIENT'S CATEGORY _____</p> <p>QC1 age group</p> <ul style="list-style-type: none"> QC11 infant QC12 child QC13 adolescent QC14 adult QC15 elderly <p>QC2 gender issue</p> <ul style="list-style-type: none"> QC21 men's health QC22 women's health QC23 sex difference QC24 transgender <p>QC3 social high risk</p> <ul style="list-style-type: none"> QC31 ethnic subgroup QC32 refugee QC33 homeless QC34 prisoner <p>QC4 addict</p> <ul style="list-style-type: none"> QC41 prescribed drug addict QC42 street drug addict QC43 game addict <p>QC5 victim of violence</p> <ul style="list-style-type: none"> QC51 gender-based violence QC52 child abuse QC53 elder abuse QC54 victim of torture QC55 ritual mutilation <p>QC6 survivor</p>	<p>QD34 genetic issue</p> <p>QD4 clinical prevention</p> <ul style="list-style-type: none"> QD41 primary prevention QD42 secondary prevention QD43 tertiary prevention QD44 quaternary prevention <ul style="list-style-type: none"> QD441 overmedicalisation QD442 disease mongering QD443 overinformation QD444 overscreening QD445 overdiagnosis QD446 overtreatment <p>QD5 complementary medicine</p> <ul style="list-style-type: none"> QD51 homeopathy <p>QD6 medico legal issue</p> <p>QD7 professional image</p> <p>QD8 work-life balance</p> <p>QE MEDICAL ETHICS _____</p> <p>QE1 personal view</p> <p>QE2 professional ethics</p> <p>QE3 bioethics</p> <ul style="list-style-type: none"> QE31 euthanasia <p>QE4 infoethics</p> <ul style="list-style-type: none"> QE41 confidentiality QE42 informed consent <p>QH PLANETARY HEALTH _____</p> <p>QH1 environmental health</p> <ul style="list-style-type: none"> QH11 indoor pollution QH12 outdoor pollution <p>QH2 biological hazard</p> <p>QH3 nuclear hazard</p> <p>QO OTHER _____</p> <p>QO1 Unable to code, unclear</p> <p>QO2 Acronym</p> <p>QO3 Out of scope of family medicine</p> <p>QO4 Consider new code</p> <p>QP PATIENT ISSUE _____</p> <p>QP1 patient safety</p> <p>QP2 patient-centredness</p> <ul style="list-style-type: none"> QP21 accessibility QP22 temporal accessibility QP23 cultural competency QP24 affordability QP25 acceptability <p>QP3 quality of health care</p> <p>QP4 patient perspective</p> <ul style="list-style-type: none"> QP41 patient satisfaction QP42 patient knowledge QP43 patient autonomy QP44 patient culture QP45 patient expense
<p>QD DOCTOR'S ISSUE _____</p> <p>QD1 communicator</p> <ul style="list-style-type: none"> QD11 encounter QD12 doctor-patient relationship QD13 counselling QD14 systems thinking QD15 motivational interviewing <p>QD2 doctor as carer</p> <ul style="list-style-type: none"> QD21 problem solving QD22 comprehensiveness QD23 health education QD24 clinical competence QD25 continuity of care QD26 palliative care QD27 family planning <p>QD3 care manager</p> <ul style="list-style-type: none"> QD31 health risk management QD32 health issue management <ul style="list-style-type: none"> QD321 medically unexplained symptom QD322 multimorbidity QD323 shared decision making QD324 incidentaloma QD325 prescribing behaviour QD326 deaddoption QD33 health status assessment 	

QP5 health behaviour

QP51 patient alimentation
QP52 patient's sexuality
QP53 self-care

QP54 over the counter

QP6 patient participation

QP61 social network

QP7 patient advocacy

QR RESEARCH

QR1 science philosophy

QR2 epidemiology of primary care

QR21 pharmacoepidemiology
QR22 community-based study

QR3 research method

QR31 qualitative study
QR32 quantitative study
QR321 case-control study
QR322 cohort study
QR323 cross-sectional study
QR324 longitudinal study
QR325 intervention study

QR33 mixed study

QR34 validation study

QR35 action research

QR36 case report

QR4 research network

QS STRUCTURE OF PRACTICE

QR5 research tools

QR51 taxonomy
QR52 scale
QR53 functional status
QR54 observation material

QR6 expert advice

QR7 economics, primary health care

QS1 primary care setting

QS11 management of practice
QS12 economy of practice
QS13 health information management
QS14 practice equipment

QS2 out-of-hours

QS3 practice relationship

QS31 practice collaboration
QS32 referral
QS33 coordination of care

QS4 primary care provider

QS41 family doctor
QS42 nurse practitioner
QS43 midwife
QS44 allied health professional
QS441 physiotherapist
QS442 social worker
QS443 psychologist
QS45 family caregiver
QS46 pharmacist

QT KNOWLEDGE MANAGEMENT

QT1 teaching

QT11 pedagogic method
QT12 teaching organization
QT13 teaching evaluation
QT131 simulated patient
QT14 academic organization

QT2 training

QT21 undergraduate
QT22 vocational training
QT23 continuous medical education
QT24 Balint group
QT25 trainer

QT3 quality assurance

QT31 evidence based medicine
QT32 guideline
QT33 critical reading
QT34 peer review
QT35 accreditation
QT36 quality indicator

QT4 knowledge translation

QT41 publishing
QT42 online knowledge-sharing
QT43 digital library
QT44 electronic communication

QT5 health data reporting

QT51 sentinel network
QT52 adverse event
QT53 health database

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This taxonomy is complementary to ICPC. It is intended to retrieve non-clinical concepts in GP/FM
Citation : Jamouille M, Q-Code, version 2.5, tabular list, copy desk. 2016. <http://3CGP.docpatient.net>