

International Classification of Primary Care

Introduction

Policy-makers, funders and providers of healthcare need to have information about the epidemiology of their communities, and they need to understand what is happening within primary care to improve health services. For providers to effectively record information about this as part of routine clinical practice, easy to use classification tools are necessary.

The International Classification of Primary Care (ICPC) is the most widely used international classification for systematically capturing and ordering clinical information in primary care. It is developed and updated by the World Organization of Family Doctors' (WONCA) International Classification Committee (WICC). The most recent version is ICPC-2 which was revised in 2015.

ICPC is formally recognised by the World Health Organization's (WHO) Family of International Classifications (WHO-FIC) as a classification system for primary care. It is mapped to the International Classification of Diseases (ICD). This allows communication between the two classification systems and complementary usage. Ongoing cooperation between WONCA and the WHO-FIC network exists for the revision of ICD-10 to ICD-11 and harmonization with ICPC.

What are the unique characteristics of ICPC?

Body system chapters

ICPC is divided into 17 chapters by body systems representing the localisation of the problem and/or disease. This makes it easy to use for healthcare providers. As well as chapters for the different body systems, there is a chapter for general and unspecified issues, and a chapter for social problems. The ability to capture unspecified issues and social problems is extremely important to understand what happens in primary care.

The reason for encounter

The chapters are divided into seven components. The components deal with (i) symptoms and complaints; (ii) diagnostics, screening and preventive procedures; (iii) medication, treatment and procedures; (iv) test results; (v) administration; (vi) referrals and other reasons for encounter; and (vii) diseases.

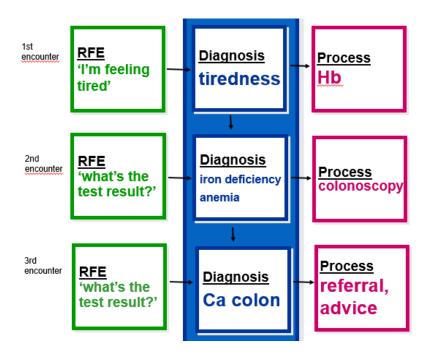
A great deal of attention is paid to the patient's symptoms and complaints in the first component of each chapter as the reason for encounter (RFE), which is not captured by ICD. Linkage of codes from the beginning of an encounter, with the RFE, to its conclusion is possible with ICPC.

Episodes of care

ICD is designed to serve the needs of hospital care where patients normally present for a single episode of care and mostly with one, often clearly differentiated, problem. In primary care, however, healthcare providers deal typically with multiple episodes of care over time, and deal with many, often undifferentiated, problems simultaneously.

Therefore, the benefit of ICPC is that it captures episodes of care (EoC) over time. It does so by allowing the simple recording of the first contact between patient and healthcare provider concerning a certain health problem, and ends with the last contact relating to this same problem.





Example of an 'Episode of Care'

The EoC allows for grouping of information over time. Healthcare providers can use this to improve continuity and coordination of care. The ability to collect data using the EoC also creates more insight into the processes related to certain conditions over time, and so a greater understanding of what is needed and the associated costs.

Reflects the content of primary care

ICPC is a classification system which aims to reflect the content of primary care. The ICPC contains codes that are mainly based on the frequencies with which they are encountered in primary care and with a level of detail that is appropriate for primary care. It is possible to tailor ICPC to match local epidemiological needs.

Enables easy and consistent coding

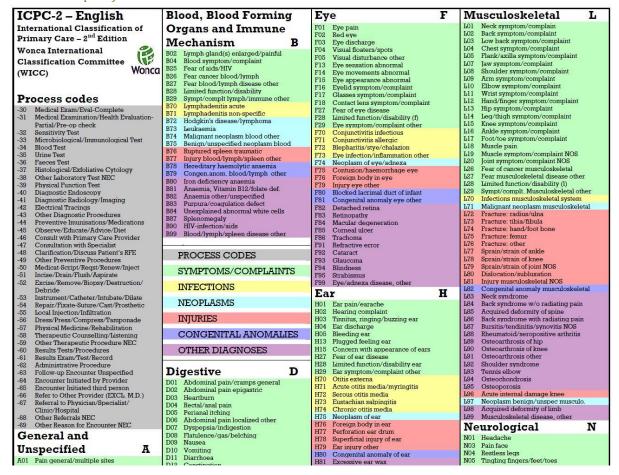
The whole of ICPC, all codes, fit the front and back of one A4 sheet of paper. ICPC-2 has around 1,300 codes whereas ICD has between 14,000 – 140,000 codes with a complex coding system. The components that form part of each ICPC chapter permit considerable specificity for all three elements of the encounter, yet their symmetrical structure and largely uniform numbering across all chapters also facilitate usage even in manual recording systems.

ICPC is available in Catalan, Chinese, Croatian, Danish, Dutch, English, Finnish, French, German, Greek, Italian, Japanese, Norwegian, Portuguese, Romanian, Russian, Serbian, Slovenian and Spanish

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Sample of ICPC-2



Why (also) use ICPC and not (only) ICD?

ICPC-2 was last revised in 2015, and was carefully mapped to ICD-10. Whilst ICPC is a full classification system in its own right, it is enhanced by being mapped to ICD. ICPC and ICD therefore are complementary rather than in competition.

A meaningful level of detail

This mapping allows ICPC to be used as the primary care lens into ICD. The reason for doing so is that the granularity of ICD is often too high and complex for its practical use in primary care. For example, for the single code of 'sinusitis' in ICPC, there are 16 concepts and subclasses in ICD. This level of detail is often unnecessary for primary care.

Similarly, in many cases ICD does not contain higher-level overarching codes or codes aggregated at a higher level which are often more meaningful for primary care. ICPC therefore provides the higher-level terms to ICD and by doing this allows for a more meaningful aggregation of ICD-data at primary care level. For example, in ICPC the most frequent cancers of the digestive system (colon cancer, stomach cancer and pancreatic cancer) have their own individual codes, and there is one code which captures other digestive cancers. This is not possible to do with ease with ICD, with 12 classes and sub-classes of digestives cancer and in the case of colon cancer ICD being split into many subclasses what is missing is the higher-level code of 'large bowel cancer'.

Users will sometimes want to separate out certain problems contained in a high-level overarching code or in aggregated codes into a more specific code. Expanded codes through ICPC-ICD mapping



allow such users to be more specific, for example enabling the recording of diseases of low prevalence but of high clinical importance.

A diagnosis is not always appropriate

Understanding the reasons for encounters across a primary care population is essential for the development of people-centred health services. ICD was designed to allow healthcare providers to code a patient's health problem in the form of a diagnosis. However, many symptoms and non-disease conditions that present in primary care are difficult to code with the ICD, which in principle has been designed for mortality and morbidity statistics with a disease-based structure and so a diagnosis represents the healthcare provider's view on a patient's illness — which it may not necessarily be correct or appropriate.

An example of this is the frequently encountered symptom of general 'weakness/tiredness' in primary care, which very often does not result in a clearly classifiable disease. ICPC allows such data elements from the patient's perspective to be included. In doing so it aims to be patient-oriented at the same time being able to capture the provider's diagnosis and classify diseases which can be mapped to ICD when appropriate.

How does it relate to clinical terminologies and other resources?

ICPC codes are most commonly used by family doctors as they provide a sufficiently detailed level for reporting, analysis, and payment of healthcare services. Linking ICPC to clinical terminologies, as for instance the Read codes or SNOMED, makes it easier without becoming too detailed or increasing the risk of coding inconsistencies, to collect data to classify morbidity data, for indexing of medical records, and health statistics. ICPC codes can also be linked to guidelines, prescription systems, laboratory tests, patient leaflets etc. on computerised records, this can enhance their use.

Conclusion: Why use ICPC?

- It allows patients' **health problems** to be **tracked over time** through the recording of episodes of care, and by allowing the coding of the reason for encounter through to a recognisable disease/problem and interventions.
- It reflects the frequency and distribution of health problems commonly encountered in primary care, and reflects the way in which primary care providers work to solve problems.
- It is **simple and easy to use** for primary care providers including doctors, nurses and other healthcare workers, therefore increasing the likelihood of consistent and accurate coding.
- It **complements other classification systems** such as ICD, and clinical terminology systems such as SNOMED CT and Read codes.
- It **enables meaningful feedback** to primary care, enables the exchange of information between primary and secondary care, as well as with policy-makers and funders to understand what is happening in primary care, and therefore improve the provision of care.



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