Chronic pain as a symptom or a disease: the IASP Classification of Chronic Pain for the International Classification of Diseases (ICD-11)

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Abstract
Chronic pain is a major source of suffering. It interferes with daily functioning and often is accompanied by distress. Yet, in the International Classification of Diseases, chronic pain diagnoses are not represented systematically. The lack of appropriate codes renders accurate epidemiological investigations difficult and impedes health policy decisions regarding chronic pain such as adequate financing of access to multimodal pain management. In cooperation with the WHO, an IASP Working Group has developed a classification system that is applicable in a wide range of contexts, including pain medicine, primary care, and low-resource environments. Chronic pain is defined as pain that persists or recurs for more than 3 months. In chronic pain syndromes, pain can be the sole or a leading complaint and requires special treatment and care. In conditions such as fibromyalgia or nonspecific low-back pain, chronic pain may be conceived as a disease in its own right; in our proposal, we call this subgroup “chronic primary pain.” In 6 other subgroups, pain is secondary to an underlying disease: chronic cancer-related pain, chronic neuropathic pain, chronic secondary visceral pain, chronic posttraumatic and postsurgical pain, chronic secondary headache and orofacial pain, and chronic secondary musculoskeletal pain. These conditions are summarized as “chronic secondary pain” where pain may at least initially be conceived as a symptom. Implementation of these codes in the upcoming 11th edition of International Classification of Diseases will lead to improved classification and diagnostic coding, thereby advancing the recognition of chronic pain as a health condition in its own right.

Keywords: Classification, ICD-11, Chronic pain, Symptom, Disease, Chronic primary pain, Chronic secondary pain, Functioning, Diagnoses, Coding

1. Introduction
Pain is one of the most frequent causes for patients to seek medical care.\textsuperscript{28} Although mortality rates are highest for cardiac infarction and stroke, infectious diseases, cancers, and diabetes, chronic pain is a leading source of human suffering and disability.\textsuperscript{16} Pain itself and many diseases associated with chronic pain are not immediately life threatening; people continue to live.
with their pain, and hence, these conditions are common in both developed and developing countries.\textsuperscript{8,11} The Global Burden of Disease Study 2013 evaluated “years lived with disability” (YLDs: the prevalence multiplied by a disability-weighting factor) for a broad range of diseases and injuries in 188 countries.\textsuperscript{34} The single greatest cause of YLDs around the world was chronic low-back pain, followed by major depressive disorder. Other frequent causes of YLDs include chronic neck pain, migraine, osteoarthritis, other musculoskeletal disorders, and medication overuse headache.

Yet, in the International Classification of Diseases (ICD), chronic pain diagnoses are not represented systematically.\textsuperscript{13,15,35} In many modern health care systems, referral for specific treatment such as multimodal pain management is dependent on suitable ICD codes as indications. The lack of appropriate codes contributes to the paucity of clearly defined treatment pathways for patients with chronic pain. Some pain specialists have argued for recognition of chronic pain as a disease in its own right (for a review see Ref. 33), whereas others have argued against this. Recognition of migraine as a primary headache disorder has been a crucial step towards including the International Headache Classification of the International Headache Society into ICD.\textsuperscript{21} Similarly, conditions such as fibromyalgia or complex regional pain syndrome may qualify for classification as primary pain disorders. On the other hand, chronic pain may be secondary to osteoarthritis or diabetic polyneuropathy, where it may at least initially be considered a symptom. In either case, chronic pain is a long-term condition that requires special treatment and care.

Pain management should be guided by some measures of patient-reported severity of this long-term condition. In acute pain management, a level of “no more than mild pain” was established as treatment goal.\textsuperscript{29} Comparison of the epidemiology of “any,” “significant,” and “severe” chronic pain indicated progressively more marked adverse associations with employment status, interference with daily activities, and general health.\textsuperscript{41} Thus, a future classification of chronic pain should also include an option to code pain severity, which refers not just to pain intensity, but also to distress and disability.

A systematic classification of chronic pain was developed by a task force of the International Association for the Study of Pain (IASP).\textsuperscript{45} This classification distinguishes chronic primary and chronic secondary pain syndromes, integrates existing pain diagnoses including headaches, and provides precise definitions and further characteristic features of the respective diagnoses according to the content model of the WHO for ICD-11, including the severity of pain, its temporal course, and evidence for psychological and social factors. These pain diagnoses have been implemented in the 11th version of ICD that was released by WHO in June 2018.

2. Methods

The IASP, an NGO in official relationship with the WHO, contacted the WHO in 2012 with respect to developing a new and pragmatic classification of chronic pain for the upcoming 11th revision of the ICD. The goal was to create a classification system that is applicable in clinical settings for specialized pain management and in primary care. A Task Force for the Classification of Chronic Pain was formed by recruiting pain experts from around the globe (http://www.iasp-pain.org/Advocacy/icd.aspx?ItemNumber=5234&navItemNum-
ber=5238), soliciting recommendations from IASP special interest groups and topical advisory groups of other ICD-11 sections. The co-chairs of the Task Force (W.R. and R.-D.T.) were in regular contact with WHO representatives. The overall structure of the chronic pain classification was developed by group consensus at the first face-to-face meeting and by plenary phone conferences. Subsequently, the subtopics were assigned to 7 smaller author teams moderated by A.B.; overlaps between subtopics (eg, chronic neuropathic pain after cancer treatment) were resolved through e-mail and phone conferences and definitions established by consensus among the teams concerned, and guidelines for classification in overlapping fields were specified.

The ICD-11 development process requires the generation of content models for each diagnostic entity, which contain definitions, diagnostic criteria, and synonyms as well as state of the art scientific information about the respective entity.\textsuperscript{52} The content models were developed by the 7 author teams and were then entered as children of the appropriate parent entities through the WHO proposal platform. Preliminary versions of the classification were published\textsuperscript{45} presented at international conferences (World Congress on Pain 2016, European Pain Congress 2017) and were open to public comment through the IASP web site and the WHO proposal platform. An early version of the classification underwent pilot ecological field testing in 4 countries in 2016.\textsuperscript{3} The prefinal version was further subjected to the official international field testing of the WHO through the IASP web site.\textsuperscript{49}

3. Results

Chronic pain was defined previously as pain that persists past normal healing time\textsuperscript{29} and hence lacks the acute warning function of physiological nociception. The concept of persistence beyond normal healing may apply to pain after surgery and the concept of lack of warning function to migraine headaches, but these concepts are difficult to verify in other conditions such as chronic musculoskeletal or neuropathic pains. Hence, a purely temporal criterion was chosen: chronic pain is pain that lasts or recurs for longer than 3 months.\textsuperscript{35}

The chronic pain definition was cast into the format of the “content models” as required by WHO for ICD-11 and was entered into what is called the “foundation layer of ICD-11.” The foundation layer is the set of all entities represented in the ICD-11, which is continually updated and expanded, and where each is assigned a unique identifier (chronic pain: http://id.who.int/icd/ entity/1581976053). Chronic pain is the “parent code” for 7 other codes that comprise the most common clinically relevant groups of chronic pain conditions (Fig. 1): (1) chronic primary pain; (2) chronic cancer-related pain; (3) chronic postsurgical or post-traumatic pain; (4) chronic neuropathic pain; (5) chronic secondary headache or orofacial pain; (6) chronic secondary visceral pain; and (7) chronic secondary musculoskeletal pain.

There is some overlap between these groups of chronic pain conditions (eg, neuropathic pain caused by cancer or its treatment) and between the pain codes and other existing codes in ICD-11 (eg, chronic headaches). The ICD-11 solves the problem of entities that belong to several fields (eg, stroke as both a cardiovascular and a neurological disorder) by so-called “multiple parenting.” Multiple parenting allows that one definition (the child) may be accessed from more than one higher level category (parent), but the child will have the same unique definition under both parent codes. This feature allows for more flexibility than in previous versions of ICD, for an example, see Figure 2.

So-called “linearizations” are subsets of the foundation layer that are used for statistical and coding purposes. The most important linearization is the “mortality and morbidity linearization.” The new ICD category for “chronic pain” and its 7 subcategories are part of this linearization, where they are listed in the chapter that describes “certain symptoms, for which
supplementary information is provided, that represent important problems in medical care in their own right” (Chapter 21). A “frozen version” of the mortality and morbidity linearization for quality control through field testing was made available in April 2017 and was updated in April 2018; the codes in linearizations may change over time as ICD-11 evolves and is maintained by the WHO (chronic pain was MJ60 in 2017 and MG30 in 2018). A “frozen version for implementation” has been published on June 18, 2018, and is scheduled for voting by the World Health Assembly in May 2019. After endorsement, countries around the world are expected to report their health statistics using ICD-11 from 2022 onward.

3.1. Chronic primary pain syndromes

Chronic primary pain is defined as pain in one or more anatomical regions that persists or recurs for longer than 3 months and is associated with significant emotional distress or functional disability (interference with activities of daily life and participation in social roles) and that cannot be better accounted for by another chronic pain condition. This is a new definition, which applies to chronic pain syndromes that are best conceived as health conditions in their own right. As illustrated in Figure 1, diagnostic entities within this category are subdivided into chronic widespread pain (eg, fibromyalgia), complex regional pain syndromes, chronic primary headache and orofacial pain (eg, chronic migraine or temporomandibular disorder), chronic primary visceral pain (eg, irritable bowel syndrome), and chronic primary musculoskeletal pain (eg, nonspecific low-back pain). Chronic secondary pain syndromes are important differential diagnoses (see also section 3.2). Chronic primary headaches are cross-referenced in this section making use of the “multiple parenting” option of ICD-11, which means that chronic migraine is listed in both the headache section and the chronic pain section. The term “chronic primary pain” may sound unusual but is consistent with language used in other parts of ICD-11. The recently proposed definition of “nociceptive pain” may describe some of the underlying mechanisms.
3.2. Chronic secondary pain syndromes

Chronic secondary pain syndromes are linked to other diseases as the underlying cause, for which pain may initially be regarded as a symptom. The proposed new ICD-11 codes become relevant as a codiagnosis, when this symptom requires specific care for the patient. This marks the stage when the chronic pain becomes a problem in its own right. In many cases, the chronic pain may continue beyond successful treatment of the initial cause; in such cases, the pain diagnosis will remain, even after the diagnosis of the underlying disease is no longer relevant. We expect that this new coding will facilitate treatment pathways for patients with these painful conditions by recognizing the chronic pain problem early in the course of the disease. This is also important if the underlying disease is painful in only some of the patients; disease diagnosis alone does not identify these patients without the codiagnosis of chronic pain.

3.2.1. Chronic cancer-related pain

Chronic cancer-related pain is defined as pain caused by the cancer itself (by the primary tumor or by metastases) or by its treatment (surgery, chemotherapy, and radiotherapy). Pain is a frequent and debilitating accompaniment of cancer and its...
treatment. It becomes more and more apparent that chronic pain syndromes are prevalent in long-term survivors of cancer, and that these chronic secondary pain syndromes include neuropathic and musculoskeletal pains. Chronic pain caused by the cancer or by chemotherapy or radiation therapy is coded in this section. Pain that is caused by surgical cancer treatment is coded in the section of chronic postsurgical pain.

3.2.2. Chronic postsurgical or postraditional pain
Whether or not pain persists past normal healing time is operationalized mostly for chronic pain after surgery or other trauma, where the initiating events and normal healing times are known. To be consistent with the definition of the parent entity “chronic pain,” the temporal criterion of 3 months is also used as a cutoff here, although aspects of chronicity may be detectable earlier. Diagnostic entities within this category are divided according to the initiating event being either surgical or nonsurgical trauma. Chronic postsurgical pain is a prime candidate for pain syndromes are prevalent in long-term survivors of cancer, and that these chronic secondary pain syndromes include neuropathic and musculoskeletal pains. Chronic pain is typically perceived within the innervation territory that is somatotopically represented within the lesioned nervous system structure (projected pain). Neuropathic pain may be spontaneous or evoked by sensory stimuli (hyperalgesia and allodynia). Chronic neuropathic pain is divided into chronic peripheral or chronic central neuropathic pain. Algorithms for grading the diagnostic certainty have been published. The diagnosis of neuropathic pain requires a history of nervous system injury, for example, by a stroke, nerve trauma, or diabetic neuropathy, and a neuroanatomically plausible distribution of the pain. Negative loss of sensory function or positive sensory signs (pain and paresthesia) must be compatible with the innervation territory of the lesioned nervous structure. For the identification of definite neuropathic pain, it is necessary to additionally demonstrate the lesion or disease involving the nervous system, for example, by imaging, biopsy, or neurophysiological tests. Questionnaires may be useful as screening tools to support the clinical hypothesis of neuropathic pain but are not diagnostic.

3.2.3. Chronic neuropathic pain
Neuropathic pain is defined as pain caused by a lesion or disease of the somatosensory nervous system. This pain is typically perceived within the innervation territory that is somatotopically represented within the lesioned nervous system structure (projected pain). Neuropathic pain may be spontaneous or evoked by sensory stimuli (hyperalgesia and allodynia). Chronic neuropathic pain is divided into chronic peripheral or chronic central neuropathic pain. Algorithms for grading the diagnostic certainty have been published. The diagnosis of neuropathic pain requires a history of nervous system injury, for example, by a stroke, nerve trauma, or diabetic neuropathy, and a neuroanatomically plausible distribution of the pain. Negative loss of sensory function or positive sensory signs (pain and paresthesia) must be compatible with the innervation territory of the lesioned nervous structure. For the identification of definite neuropathic pain, it is necessary to additionally demonstrate the lesion or disease involving the nervous system, for example, by imaging, biopsy, or neurophysiological tests. Questionnaires may be useful as screening tools to support the clinical hypothesis of neuropathic pain but are not diagnostic.

3.2.4. Chronic secondary headache or orofacial pain
This section is largely cross-referenced to the headache classification of the International Headache Society (IHS) that is implemented in full in the chapter on neurology. The IHS classification differentiates between primary (idiopathic) headaches, secondary (symptomatic) headaches, and orofacial pains including cranial neuralgias. Chronic headache and orofacial pain are defined as headaches or orofacial pains that occur for more than 2 hours per day on at least 50% of the days during at least 3 months. Only chronic secondary headaches and chronic orofacial pains are included here; chronic primary headaches are listed under chronic primary pain syndromes. The subdivisions of chronic orofacial pain are more elaborate than in the IHS classification, thanks to contributions from the IASP SIG on orofacial pain, and include chronic dental pains and temporomandibular disorders.

3.2.5. Chronic secondary visceral pain
Chronic secondary visceral pain is defined as persistent or recurrent pain that originates from internal organs of the head/neck region and the thoracic, abdominal, and pelvic cavities. The pain is usually perceived in somatic tissues of the body wall (skin, subcutis, and muscle) in areas that receive the same sensory innervation as the internal organ at the origin of the symptom (referred visceral pain). Diagnostic entities within this category are subdivided according to the major underlying mechanisms, ie, mechanical factors (eg, traction and obstruction), vascular mechanisms (ischemia and thrombosis), or persistent inflammation. Pain due to cancer or metastasis in internal organs is coded in the chapter chronic cancer-related pain, whereas pain due to functional or unexplained mechanisms is listed under chronic primary pain.

3.2.6. Chronic secondary musculoskeletal pain
Chronic secondary musculoskeletal pain is defined as persistent or recurrent pain that arises as part of a disease process directly affecting bone(s), joint(s), muscle(s), or related soft tissue(s). Pain may be spontaneous or movement-induced. This category is limited to nociceptive pain and does not include pain that may be perceived in musculoskeletal tissues but does not arise therefrom, such as the pain of compression neuropathy or somatic referred pain. Diagnostic entities within this category are subdivided according to the major underlying mechanisms, ie, persistent inflammation of infectious, autoimmune or metabolic etiology (eg, rheumatoid arthritis), structural changes affecting bones, joints, tendons, or muscles (eg, symptomatic osteoarthritis), or chronic musculoskeletal pain secondary to diseases of the motor nervous system (eg, spasticity after spinal cord injury or rigidity in Parkinson disease). Well-described apparent musculoskeletal conditions for which the causes are incompletely understood, such as nonspecific back pain or chronic widespread pain, are included in the section on chronic primary pain.

3.3. Severity and other extension codes in ICD-11
Optional specifiers (called “extension codes” in WHO terminology) are available for all chronic pain diagnoses and allow for recording pain severity, its temporal course, and evidence of psychological and social factors. The severity of chronic pain is proposed to be determined as a compound measure of pain intensity, and pain-related distress and task interference. Pain intensity denotes the strength of the subjective pain experience (“how much does it hurt?”). Pain-related distress is the multifactorial unpleasant emotional experience of a psychological (cognitive, behavioral, and emotional), social, or spiritual nature because of the persistent or recurrent experience of pain (“how distressed are you by the pain?”). Pain-related interference describes how much the pain interferes with daily activities and participation (“how much does the pain interfere with your life?”). Each of the severity determinants (intensity, pain-related distress, and interference) is rated by the patient on a numerical rating scale from 0 to 10 and then transformed into WHO severity stages of “mild,” “moderate,” and “severe” (Box 1). Temporal characteristics can be coded as continuous pain, episodic recurrent pain, and continuous pain with pain attacks.

The presence of significant psychological and social factors can also be documented with an extension code. Psychological factors in this sense are cognitive (such as catastrophizing or worry and rumination), behavioral (such as avoidance or endurance), and emotional (such as fear or anger). Social factors refer to the impact of chronic pain on the relationship with others and vice
versus. This extension code should be used when psychological and social factors are judged to contribute to the onset, the maintenance or exacerbations of pain or are regarded as relevant consequences of the pain. Assigning this extension code does not require a judgement regarding causal priorities or etiological contributions. Because all chronic pain is regarded as a multifactorial, biopsychosocial phenomenon, this extension code is available for all chronic pain diagnoses and is not limited to the chronic primary pain syndromes.

ICD-11 will be coordinated within the WHO Family of International Classifications that also includes the International Code of Functioning (ICF) and the International Code of Health Interventions (ICHI). Each ICD-11 code will refer to the relevant section of ICF as “functional properties” of the ICD code. A harmonization of ICD with ICF is particularly relevant for chronic pain conditions because both systems address pain and pain-associated disability. The ICF was developed by the International Society for Physical and Rehabilitation Medicine (ISPRM) with the WHO. A draft of the functioning properties for chronic pain on the basis of the ICF domains was developed jointly by IASP and ISPRM.

4. Discussion

The classification system for chronic pain conditions submitted by IASP to WHO is compatible with ICD principles and aims to improve pain research, health policy decisions, and patient care. The temporal cutoff of 3 months for defining chronic pain is arbitrary, but it is consistent with temporal cutoffs of other chronic conditions. This clearly operationalized and easily measurable criterion will help to use uniform criteria in health care statistics, clinical trials, publications, and medical textbooks. It has the advantage that clinicians, at a reasonable point in time, will be alerted to the possibility that pain may be the leading or sole medical problem of a given patient. The question whether pain can become chronic at an earlier stage (sometimes called “subacute”) is a research question that can now be addressed by contrasting patient histories with this definition.

In the field of headache, precise and operationalized criteria for diagnosis (eg, a strict temporal criterion for migraine) have greatly facilitated research in all areas ranging from basic to epidemiological science, which in turn informed the refinement of diagnostic criteria at

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**Box 1. Specifiers or “extension codes” in ICD-11**

**Pain severity**

Pain intensity may be assessed verbally or on a numerical or visual rating scale. For the severity coding, the patient should be asked to rate the average pain intensity for the last week on an 11-point numerical rating scale (NRS) (ranging from 0 “no pain” to 10 “worst pain imaginable”) or a 100-mm visual analogue scale (VAS):

- **mild pain**: NRS: 1-3; VAS: <31 mm
- **moderate pain**: NRS: 4-6; VAS: 31-54 mm
- **severe pain**: NRS: 7-10; VAS: 55-100 mm

Pain-related distress may be assessed by asking the person to rate the pain-related distress they experienced in the last week (multifactorial unpleasant emotional experience of a cognitive, behavioral, emotional, social, or spiritual nature due to the persistent or recurrent experience of pain) on an 11-point numerical rating scale or a VAS from “no pain-related distress” to “extreme pain-related distress” (“distress thermometer”).

- **mild distress**: NRS: 1-3; VAS: <31 mm
- **moderate distress**: NRS: 4-6; VAS: 31-54 mm
- **severe distress**: NRS: 7-10; VAS: 55-100 mm

Pain-related interference last week as rated by the patient on an 11-point NRS (from 0 “no interference” to 10 “unable to carry on activities”) or VAS (0 mm “no interference” to 100 mm “unable to carry on activities”).

- **Code 0**: no interference
- **Code 1**: mild interference; NRS: 1-3; VAS: <31 mm
- **Code 2**: moderate interference; NRS: 4-6; VAS: 31-54 mm
- **Code 3**: severe interference; NRS: 7-10; VAS: 55-100 mm

Overall severity combines the ratings of intensity, distress, and disability using a 3-digit code: Example: A patient with a moderate pain intensity, severe distress, and mild disability will receive the code “231.” The severity code is optional.

**Temporal characteristics of the pain**

The temporal course of the pain can be coded as “continuous” (the pain is always present), “episodic recurrent” (there are recurrent pain attacks with pain-free intervals) and “continuous with pain attacks” (there are recurrent pain attacks as exacerbations of underlying continuous pain).

**Presence of psychosocial factors**

This extension code permits coding problematic cognitive (eg, catastrophizing, excessive worry), emotional (eg, fear, anger), behavioral (eg, avoidance) and/or social factors (eg, work, relationship) that accompany the chronic pain. The extension code is appropriate if there is positive evidence that psychosocial factors contribute to the cause, the maintenance and/or the exacerbation of the pain and/or associated disability and/or when the chronic pain results in negative psychobehavioral consequences (eg, demoralisation, hopelessness, avoidance, withdrawal).
The introduction of chronic primary pain as an ICD-11 utility for primary care is useful and can then be linked as “children” lists diagnoses only down to the 6-digit level. The classification of ICD-11 and was straightforward for 97% of revisions are now included as because of the success of the behavioral chronic pain, or to another chronic secondary pain and often no other underlying disease can be identified. The organizing principle of the chronic pain classification is the same as that used throughout ICD: give first priority to pain etiology (primary pain syndromes, cancer-related pain, and postsurgical or posttraumatic pain), followed by underlying pathophysiological mechanisms (neuropathic pain), and finally body site or affected organ system (headache or orofacial pains, visceral pain, and musculoskeletal pain).

4.1. Biological plausibility
The organizing principle of the chronic pain classification is the same as that used throughout ICD: give first priority to pain etiology (primary pain syndromes, cancer-related pain, and postsurgical or posttraumatic pain), followed by underlying pathophysiological mechanisms (neuropathic pain), and finally body site or affected organ system (headache or orofacial pains, visceral pain, and musculoskeletal pain).

4.2. Exhaustiveness
Chronic pain may be a symptom of an underlying chronic condition, but it frequently outlasts the normal healing process and often no other underlying disease can be identified. The proposed classification of chronic pain distinguishes between chronic primary pain syndromes (long-term conditions in their own right) and chronic secondary pain syndromes (symptoms of another nonpain problem). The morbidity and mortality linearization of ICD-11 lists diagnoses only down to the 6-digit level. We made a major effort to assure completeness at that level. ICD-11 automatically adds a category “other” at each level to catch any cases that might have been missed. Below the 6-digit level, some pain diagnoses have not yet been linked to this classification; for those, new codes can be generated in the foundation layer of ICD-11 and can then be linked as “children” to the appropriate parent code in the morbidity and mortality linearization. This flexibility is one of the strengths of ICD-11 over previous versions of ICD.

4.3. Uniqueness
The principle of “multiple parenting” allows the same diagnosis to be referenced in more than one category. In this regard, ICD-11 transcends the discipline-specific structure of previous versions. It allows different angles from which to approach a diagnosis: An oncologist will be able to look up chronic neuropathic chemotherapy-induced pain among the cancer-related pain diagnoses, whereas a neurologist will be able to find exactly the same diagnosis from the perspective of chronic neuropathic pain.

4.4. Reliability over time
If the chronic pain condition persists, clinicians should continue to use a diagnosis of chronic secondary pain even after the causing medical condition has been treated successfully or remitted. After longer periods of obvious dissociation between the medical causes and chronic pain, and with clear evidence for other factors determining the chronic pain condition, a change of the chronic pain diagnosis (eg, to chronic primary pain, or to another chronic secondary pain diagnosis) should be considered (Fig. 1).

4.5. Inter-rater reliability
This has been assessed in the case-coding field testing by WHO in 2017 to a certain extent, but those were very few pain cases, and hence, more field testing is needed to further validate the classification.

4.6. Clinical usefulness and simplicity
A pilot field testing in 2016 on consecutive cases in 1 primary care center and in pain clinics in 4 countries showed that coding was much easier than in ICD-10 and was straightforward for 97% of the patients. One of the participating clinics continues to use the ICD-11 classification ever since. Utility for primary care is discussed in a companion article.

The new classification of chronic pain may help to reduce stigma in many cultures. The introduction of chronic primary pain as a new diagnostic entity recognizes conditions that affect a broad group of pain patients who are not adequately represented in categories defined strictly according to either somatic or psychological etiology. Because of the success of the behavioral neurosciences, even mental disorders can nowadays no longer be considered purely nonsomatic. Of note, all chronic pain, including chronic primary pain, will be coded outside the realm of psychiatric disorders. This accords more with the current scientific understanding of chronic pain and often aligns better with patients’ own views.

All clinically relevant chronic pain is conceptualized within the biopsychosocial model. The 7 major categories of chronic pain represent a compromise between comprehensiveness and practical applicability of the classification system. Several clinically important conditions that were neglected or inadequately represented in previous ICD revisions are now included as diagnoses, eg, chronic cancer-related pain, chronic postsurgical pain, or chronic neuropathic pain. Etiological factors, temporal factors, pain severity, and functional properties are reflected. Assessment of pain intensity and severity should become part of all routine medical examinations. Underlying causes and mechanisms should then be identified and lead to a personalized pain management plan. Joint efforts by IASP and WHO have resulted in the WHO analgesic ladder for treatment of cancer pain in 1986. Now is the time for a similar coordinated effort to promote improved diagnostic classification and multimodal management approaches for all chronic pain around the world.

5. Conclusions
This is the first systematic classification of chronic pain that is also a part of the ICD. We hope that this classification strengthens the representation of chronic pain conditions in clinical practice and research. The introduction of appropriate codes for chronic primary and secondary pain syndromes is expected to promote research on etiology and pathophysiology of these syndromes thanks to clearly operationalized research diagnostic criteria. New entities discovered by future research can be added to the foundation layer of ICD-11 and will be anchored as “children” of the appropriate “parent” codes of the classification presented here. This simple to use classification is also expected to improve access to multimodal care for all patients with chronic pain. It will facilitate accurate epidemiological investigations and health policy decisions regarding chronic pain, including adequate financing of treatments.

Conflict of interest
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Appendix A. Supplemental digital content

Supplemental digital content associated with this article can be found online at http://links.lww.com/PAIN/A658. SDC includes a complete reference list of the diagnoses entered into the foundation with the foundation IDs as well as the extension codes (specifier). Since the complete list is contained, the material is identical for all papers of the series.

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