

PCNE Classification scheme for Drug-Related Problems Amendments

Changes between V 6.1 and 6.2

The problem 'No drug treatment' has been re-introduced as P1.4. Although no-drug could be seen as not directly drug-related, it is widely considered as a real drug-related problem. Consequently C1.5 and C1.9 have been simplified and clarified. Some double codes in the cases section have been removed, and C3.1 and C3.2 are split up. Also the word 'medicine' has been replaced by 'drug' throughout the classification, because the latter word is most used internationally.

Changes between V 6.0 and 6.1

The classification was further amended during a workshop at the Symposium in Geneva, 2-11-2009. The number of problems was further reduced and the number of causes (errors) adapted. Sections P3-P5 have been moved to causes. An option to indicate a real or potential problem has been added.

Changes between V5.01 and 6.0 (15 March 2009)

A change that was long due has now been implemented. *This does make the current system no longer compatible with previous versions.* A problem code describing wrong drug effects of drug has now been added, and moved to P1. The old P2 is now called 'Therapy problem' as P3, indicating that this problem might not necessarily be bothering the patient. The old P4 (Drug Use problem) and P5 (Dosing problems) have disappeared from the problem list because they described basically the causes for problems. The problem with timing has now been introduced as P3.7. A problem with the economic outcome of the drug therapy has been added as P3.8.

Changes between V5.00 and V5.01

Some make-up changes. In this version 5.01 an extra Cause is added: *C4.10 Patient takes food that interacts with drugs.* C5.1 changed slightly to cover also for cases when a drug has been taken off the market. O0 was added for cases where the outcome of an intervention was (still) unknown.

Change between V4.00 and V 5.00

A scale has been added to indicate to what extend the problem has been solved. Interventions added I 3.4: Instructions for use changed to, I 3.5: drug stopped and I 3.6 new drug started. C 6.1 and C 6.2 'reason' changed in 'cause'. C 4.10 added: Patient takes food that interacts with drugs.

Changes between V 3.02 and V 4.00

General:

After incorporating changes as a result of validations in Portugal and N. Ireland, all items have been renumbered and re-arranged. SPSS numbering removed: unclear in context of classification.

Added a first page to the official classifications, with only the primary domains to clarify that the classification can also be used on the first level.

Problem Domains

- Rearranged problem-domains (more important and frequent to the top)
- Inappropriate drug form inserted

- Distinction between allergic and non-allergic side-effect reintroduced, as well as option for toxic effect
- Distinction between inappropriate drugs prescribed and OTC removed
- ‘No drug prescribed but clear indication’ moved to Drug choice problem: (although this sub domain is debatable in a DRP classification)
- Drug level too low or too high removed: overlap with dosing problem
- ‘Incorrect timing’ removed, is a cause and not a problem per sé
- Items in Drug use domain partially removed and integrated in causes section; this type of problem is a dosage problem that leads to a problem.
- Added ‘Inappropriate’ to duplication

Causes domains

- Merged a number of codes in Drug/dose selection domain
- Reworded a number of causes
- Rearranged a number of sub domains (more important and frequent to the top)
- Cause ‘Drug used to suppress avoidable side effects’ removed (no cause for a problem, the cause is inappropriate drug selection)
- Reasons for drug not used/underused moved to sub-sub domain
- Moved manifest side effect to Domain drug/dose selection

Intervention domain:

- Added: Formulation changed to

Changes between V 3.01 and 3.02

P3.4 removed as option but series not renumbered

Changes between V 3.0 and 3.01

Added new P3.4: Too little drug taken or administered. Moved other numbers.

Changed description of C3.4, C4.1, I1.3 and I1.4

P3.4 might be identical to P3.1, should be discussed.

Changes between V2.0 and V 3.0

Due to the Basle meeting between experts (2001), the whole problem section has been revised, in order to make the system compatible with other, similar systems. N.B. The codes have been changed too!

Manifest Interaction has been moved back to the problem section (now P4.1). This is debatable.

Changes between V1.0 and V 2.0

General:

- Word ‘medicine’ replaced by ‘drug’ (can be reversed if desirable)
- Suggested option to include ‘Patient asks for OTC drug’ and ‘drug sold’ does not have a link with a drug related problem, and therefore will not be included. If the patient asks for the wrong OTC drug, then P7.2 is available.

Problem section

- Domain ‘Too much drug’ added’

- Items ‘Drug dose too low’ and ‘dosage regime not frequent enough’ merged into new item: ‘Drug dose too low or dosage regime not frequent enough’ and moved to appropriate domain.
- Items ‘Drug dose too high’ and ‘dosage regime too frequent merged into new item: ‘Drug dose too high or dosage regime too frequent’ and moved to appropriate domain.
- Item ‘Drug not taken (only partially)’ added.
- Domain ‘Dosage’ changed into ‘Treatment Duration’.
- Item ‘Patient is unable to use drug/form properly’ moved to domain ‘Patient related problems’.
- Item ‘Manifest Interaction’ removed (is cause) and ‘Drug level too low’ and ‘Drug level too high’ added to the appropriate domains. Item ‘Potential interaction’ is still in problem section. The manifest interaction is a cause.
- Item ‘Patient asks for inappropriate drug (OTC)’ added to domain Patient related problems
- ‘Side effect suffered’ combined, not really relevant if it is allergic or not.

Causes section

- Item ‘Drug overused’ removed (= drug misused)
- ‘Prescribing error (slip of the pen)’ changed into ‘Prescribing error (only in case of slip of the pen)’. Other prescribing errors are covered in first domain.
- ‘Manifest side effect, no other cause’ added to Misc. domain (a side effect can be an independent cause for an undesirable reaction to a drug)

Intervention section

- Item ‘Practical instruction to patient’ removed (= Patient medication counselling)
- Item ‘Written information provided only’ added
- Item ‘Intervention proposed to prescriber, outcome unknown’ added
- Item: Side effect reported to authorities’ added

Comments on this classification and its use can be addressed at:
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