PCNE Classification scheme for Drug related problems-1 (revised)

The Problems

Primary Domain	Code	Code New	Code SPSS	Problem
Lack of Drug Patient does not take the drug he/she requires	P1.1 P1.2	P10 P11	1 2	No drug prescribed but clear indication Drug not taken at all
Unnecessary drug Patient takes a drug he/she does not require	P2.1 P2.2	P20 P21	3 4	Duplication of therapeutic group or active ingredient No clear indication for drug use
Wrong medicine Patient takes or is going to take a wrong medicine for his/her disease and/or condition	P3.1 P3.2 P3.3 P3.4 P3.5 P3.6	P30 P31 P32 P33 P34 P35	5 6 7 8 9 10	Interaction (without symptoms) or potential interaction Manifest interaction Contra-indication Inappropriate drug (not best choice for indication and/or patient) Right drug but inappropriate formulation Patient is unable to use drug/form properly
Dosage Patient uses a wrong dose, regimen and/or duration.	P4.1 P4.2 P4.3 P4.4 P4.5 P4.6 P4.7	P40 P41 P42 P43 P44 P45 P46	11 12 13 14 15 16 17	Drug dose too low Duration of treatment too short Dosage regime not frequent enough Drug dose too high Duration of treatment too long Dosage regime too frequent Incorrect timing
Adverse Events Patient suffers an adverse drug event	P5.1 P5.2	P50 P51	18 19	Side effect suffered (non allergic origin) Side effect suffered (allergic origin)
Patient related problems	P6.1 P6.2 P6.3 P6.4	P60 P61 P62 P63	20 21 22 23	Therapy failure for unknown reason (escape code) Patient dissatisfied with therapy despite taking correctly Unclear complaints. Further clarification necessary Insufficient awareness of health and diseases (possibly leading to future problems)

PCNE Classification scheme for Drug related problems-2

The Causes

Category	Code	Code new	Code SPSS	Causes
Drug/Dose selection The cause of the DRP can be related to the selection of the drug and/or dosage schedule	C1.1 C1.2 C1.3 C1.4 C1.5 C1.6 C1.7 C1.8 C1.9	C10 C11 C12 C13 C14 C15 C16 C17 C18	1 2 3 4 5 6 7 8 9	Inappropriate drug selection Inappropriate dosage selection More cost-effective drug available Pharmacokinetic problems Synergistic drug required Preventive drug required Dosage adjustment required due to organ impairment Deterioration/improvement of disease state New symptom presented
Drug use process The cause of the DRP can be related to the way the patient uses the drug.	C2.1 C2.2 C2.3 C2.4 C2.5 C2.6 C2.7 C2.8 C2.9 C2.10	C20 C21 C22 C23 C24 C25 C26 C27 C28 C29	10 11 12 13 14 15 16 17 18 19	Drug not used/ underused because of side-effects Drug not used/ underused because of costs Drug not used/ underused because of health beliefs Drug overused Drug misused Drug used to suppress avoidable side-effect No therapeutic drug monitoring Inappropriate timing of administration and/or dosing intervals Patient unable to use drug/form properly Patient forgets to use/take drug
Information The cause of the DRP can be related to a lack of information or misinterpretation	C3.1 C3.2 C3.3 C3.4	C30 C31 C32 C33	20 21 22 23	Instructions for use/taking not known Patient not familiar with reason for drug treatment Patient has difficulties reading/understanding Patient Information Form/Leaflet Patient unable to understand language
Patient/Psychological The cause of the DRP can be related to the personality of the patient.	C4.1 C4.2 C4.3 C4.4 C4.5 C4.6	C40 C41 C42 C43 C44 C45	24 25 26 27 28 29	Health beliefs not in line with treatment Patient does not want to bother doctor/GP Patient does not want to change drugs Patient has concerns about drugs Patient does not want to adapt life-style Burden of therapy
Logistics The cause of the DRP can be related to the logistics of the prescribing or dispensing mechanism	C5.1 C5.2 C5.3	C50 C51 C52	30 31 32	Prescribed drug not available Prescribing error (slip of the pen) Dispensing error (wrong drug or dose dispensed)
Misc.	C6.1 C6.2	C60 C61	33 34	Other reason No obvious reason

PCNE Classification scheme for Drug related problems-3

The Interventions

Category	Code	Code new	Code SPSS	Interventions
No intervention	I0.0	I0.0	1	No Intervention
At presciber level	I1.1 I1.2 I1.3 I1.4	I10 I11 I12 I13	2 3 4 5	Prescriber informed only Prescriber asked for information Intervention proposed by pharmacy, approved by Prescriber Intervention proposed by pharmacy, *not* approved by Prescriber
At patient (or relative) level	I2.1 I2.2 I2.3 I2.4	I20 I21 I22 I23	6 7 8 9	Patient medication counselling Practical instruction to patient Patient referred to prescriber Spoken to family member/caregiver
At drug level	I3.1 I3.2	I30 I31	10 11	Drug changed Dosage changed
Other intervention	I4.1	I40	12	(Description)