Drug Safety

Use of a patient-friendly terms list in the adverse drug reaction report form: A database study

Sieta T. de Vries, PhD¹; Judy Harrison, MD²; Patrick Revelle²; Alicia Ptaszynska-Neophytou³; Anna Radecka³; Gowthamei Ragunathan³; Phil Tregunno³; Petra Denig, PhD¹; Peter G.M. Mol, PhD^{1,4}

⊠ p.g.m.mol@umcg.nl

Supplemental Digital Content

This Supplemental Digital Content contains the appendix referred to in the full version of this article, which can be found at http://adisonline.com/drugsafety

¹ University of Groningen, University Medical Center Groningen, Department of Clinical Pharmacy and Pharmacology, Groningen, The Netherlands

² MedDRA Maintenance and Support Services Organization (MSSO)

³ Medicines and Healthcare products Regulatory Agency (MHRA)

⁴ Dutch Medicines Evaluation Board, Utrecht, The Netherlands

Electronic Supplementary Material 1. Description of a small pilot study

In a small pilot study, 4 patients from the EURORDIS UK network or the Patient Group Consultative Forum (PGCF) completed a survey about their views on the use of patient-friendly terms in the adverse drug reaction (ADR) report form. The age of these patients ranged from 27 to 72 and three patients were male.

All patients indicated that they would prefer to describe the ADR in their own words rather than selecting a term from a list. They indicated that they can provide more accurate information when describing the ADR themselves and that this will not confront them with medical terms:

- "I think by describing the side effects myself I can describe things better and more accurately"
- "I'd prefer to describe it in my own words as I've limited medical knowledge of terms and jargon"
- "Don't see that a list would be helpful to me personally because I am capable of adequately explaining symptoms and expressing how I feel...... generally I know when I am feeling terrible and can figure out what could/might be a cause. Maybe some people can't explain how they are feeling and prefer a list. This may be desirable where English isn't first language and patients don't know how to explain"
- "Side-effects can affect patients very differently, and there are so many variables that a tick-box multiple choice approach could be limiting at best, and inaccurate at worst"

A patient indicated that the use of standard terms in the ADR report form could be a good idea for people who cannot express themselves. Other patients mentioned that the use of standard terms should be presented in non-medical terms and that there should be an option to fully describe the ADR and an option to report ADRs that are not in the list.

In the same survey, the patients evaluated the understandability of a sample of terms from the patient-friendly terms list. They were asked to indicate for each term whether the term was in their opinion clear/unclear and whether the term would be clear/unclear for other people they know. In addition, they could indicate any suggestions for improving each term or they could add any

comments. The selected terms were mainly terms considered by MSSO as *potentially difficult* terms for patients but contained also a sample of terms that were considered *probably understandable*. A total of 123 patient-friendly terms (i.e. 114 potentially difficult and 9 probably understandable terms) were evaluated by a patient:

Of the 114 potentially difficult terms:

- 60 terms were *unclear* for the patient and considered to be *unclear* for other people;
- 36 terms were *clear* for the patient and considered to be *clear* for other people;
- 17 terms were *clear* for the patient but considered to be *unclear* for other people;
- 1 term was *unclear* for the patient and an evaluation for other people was lacking.

Other people Unclear Clear Unclear 60 0 Patient him-/herself Clear 17 36 A)1

Of the 9 probably understandable terms:

- 2 terms were *unclear* for the patient and considered *unclear* for other people;
- 7 terms were *clear* for the patient and considered *clear* for other people.

		Other people		
		Unclear	Clear	
Patient him-/herself	Unclear	2	0	
·	Clear	0	7	
	В)	1	

Figure. Patients' evaluation of a selection of **A)** potentially difficult terms, and **B)** probably understandable terms. ¹One term is missing since there was an evaluation for the patient him-/ herself but not for other people.

A few suggestions for improving the terms were given (see Table below).

In conclusion, patients seem to prefer to describe an experienced ADR in their own words rather than selecting a term from a list. The currently available patient-friendly terms list needs to be further improved to better represent lay-terms.

Overview of evaluated potentially difficult terms

		Your c	Your opinion		r people	
LLT						Suggestions for
	LLT code	Unclear	Clear	Unclear	Clear	improvement
Abdominal abscess	10060921	х		Х		
Abnormal liver						Wouldn't know how you
function tests	10000158	Χ		Х		know this without a test
Accidental overdose						Taken too many by
	10000381		Χ	Χ		mistake
Acute myeloid						
leukaemia	10000880	X		Х		
ADHD	10064104		Х		Χ	
Agoraphobia	10001502		Х		Х	
Alcohol interaction						Had alcohol with
	10001597		Х	X		medication
Alertness decreased	10049875		X		Х	
Application site						
papules	10049043	Χ		Χ		
Atrial flutter	10003662	Χ		Х		Heart flutter/palpitations
Auditory						
hallucinations	10003785		Х		X	
Axillary pain	10048750	Χ		Х		
Blood glucose						
increased	10005557		Х		Χ	
Blood sugar						Don't know how I would
decreased						know blood sugar
	10005808	X		Χ		decreased
Bone density						
decreased	10049470		Х	Х		
Bone fragile	10005966		X		X	
Bone loss	10065687		X		X	
Breakthrough pain	10064556	X		Х		
Candida infection	10074170	Х		Х		
Cardiopulmonary						
failure	10051093	X		Χ		Could be indigestion?
Cholesterol levels						
raised	10008663		X		X	
Clavicle fracture	10009245	Х		X		
Clot blood	10009667	Х		Χ		

Clotting disorder	10064732		Х		Х	
Condition	10004732		X		Χ	
aggravated	10010264		x	x		
Deafness unilateral	10048812	X		х		
Deep vein	100.0011					Never having had
thrombosis						something like this I'm not
						sure I would distinguish it
	10051055	X		X		with cramp?
Dermatitis	10012431		X		X	
Diabetic neuropathy	10012680	X		X		
Diverticulitis	10013538		Х	X		
Drug effect						
decreased	10013678		X		X	
Ectopic pregnancy	10014166	Χ		X		
Edema	10014210	Х		X		
Endometriosis	10014778	X		X		
Esophagitis	10015461	X		X		
Facial bones						
fracture	10016042		X	X		Face bone broken
Fatty liver	10016261	Х		X		
Femur fracture	10016454	Χ		X		
Fistula	10016717	X		X		
Gastric disorder	10056819		X	X		
Gastric perforation	10017815	X		X		
GERD	10018203	Х		X		
Grand mal						
convulsion	10018659	X		X		
Guillain-Barre						
syndrome	10018767	Х		X		
Hand deformity	10061194		X		X	
Hepatitis C	10019744	Х		X		
Hypertension	10020772		Х	X		
Hyperthyroidism	10020850	Х		X		
Hyperventilation	10020910		X	X		
Impaired liver						
function	10021520		Х		Х	
Increased urinary frequency	10021692		v	v		Older people more likely to be aware of this
Infusion site	10021092		Х	Х		to be aware of this
swelling	10053505		x		х	
Injection site	10033303		^		Α	
inflammation	10022078		Х		X	
Iron low						Only know this following a
	10022982		Х	Х		blood test
Laceration	10023572	Х				
Libido decreased						Over 15's yes, not all over
	10024419		X		X	12's would understand
Lip disorder	10048470		X		X	
Lumbar pain	10024998		Х		Х	

Lung cancer	40050047					
metastatic	10050017	Х		Х		
Lymphedema	10025233	X		Х		
Lymphoedema	10025282	X		Х		
Macular						
degeneration	10025409	Х		Х		
Metastases to lung	10027458	Х		Х		
Metastases to						Wouldn't know symptoms
lymph nodes	10027459	X		Х		of this
Metastasis	10062194	Х		Х		
Movements	10020020					
abnormal Mucous membrane	10028039		Х		Х	
disorder	10028133	v		V		
Multiple myeloma		X		X		
Myalgic	10028228	Х		Х		
encephalomyelitis	10028414	X		х		
Myelodysplastic	10020414	^		^		
syndrome	10028533	Х		Х		
Necrosis	10028851	X		X		
Nerve damage	10020031	^		^		Again wouldn't be able to
recive damage						distinguish this from
	10029177	х		х		bruising?
Neuropathy	10029328	Х		х		0 .
Nicotine addiction	10056478		х		х	
Oedema	10030176	х	^	X	^	
Oesophageal pain	10030033	Λ	x	Λ	х	
Osteoporosis	10030180		X		X	
Patella fracture	10031282			v	^	Broken knoosen
Pelvic inflammatory	10034122		Х	X		Broken kneecap
disease	10034254	х		x		Not sure of symptoms
Pharyngitis	10034234					Not sure or symptoms
Polycystic ovaries	10034833	X		X		
Polyp		X		X		
Postmenopausal	10061529	Х		Х		
bleeding	10036399		x		x	
Product quality	10030333		^		^	
issue	10069327	Х		х		
Product size issue	10069249	X		X		
Product taste	10003213	Λ		^		
abnormal	10069227		х		х	
Psychosis	10037234	Х		х		
Radius fracture		X		X		
Raynaud's syndrome	10037002	Λ		^		Would have to look it up
,	10037914	x		X		on google
Shoulder bursitis	10040611	х		х		5 5
Skin abrasion	10064990		х		х	
Skin depigmentation	10040825		X		X	
Skin pigmentation	10040910		X		X	
P.O	10040310		^		^	

Soft tissue disorder	10061366		Х	Х		
Sore oesophagus	10041365	X		X		
Substance abuse	10066169		x		X	
Tenderness	10043224		х		X	
Tendinitis	10043232	Х		X		Could be other causes
Thrombosis leg	10043623		х	X		Swollen leg
Tibia fracture	10043827	X		X		-
Type 1 diabetes						
mellitus	10067584		х		X	
Underdose	10057362	X		X		
Unilateral vision loss	10059679		х	X		
Urinary retention	10046555		х		Х	
Urticaria	10046735		x	x		
Uterine prolapse	10046814	X		X		
Vaccination site						
inflammation	10068878		Х		Х	
Venous thrombosis						I might know but could
						confuse it with something
	10047249		Х	X		else
Visual hallucinations	10047570		Х		Х	
Vulvovaginal pain	10069055	Χ		X		
Weakness left or	40047066					
right side	10047866		Х		Х	
Whitlow	10059856	Х		X		
Wound healing	10040036				.,	
delayed Writing impaired	10048036		X		X	
writing impaired	10048053		Х		X	

LLT = Lowest level term

Overview of evaluated probably understandable terms

		Your o	pinion	For other people		_
LLT	LLT code	Unclear	Clear	Unclear	Clear	Suggestions for improvement
Scoliosis	10039722	Х		X		
Shingles	10040555		X		x	
Ache	10000424		X		X	
Cold feet	10009859		X		X	
Dizziness	10013573		x		x	
Eye burns	10015911	Х		X		
Flu	10016790		x		X	
Hand rash	10019117		x		x	
Increased tendency						
to bruise	10021688		Х		Χ	
LLT = Lowest level te	rm					