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Patient and public involvement in clinical practice guidelines: a knowledge synthesis of existing programs

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Abstract (271/275 words)

Background: The role of patient and public involvement programs (PPIPs) in developing and implementing clinical practice guidelines (CPGs) has generated great interest.Purpose: We sought to identify key components of PPIPs used in developing and implementing CPGs.

Data sources: We searched bibliographic databases and contacted relevant organizations. **Study selection:** We retrieved 2161 articles and reports on PPIPs in the development and implementation of CPGs. Of these, 71 qualified for inclusion in our review.

Data extraction: Reviewers independently extracted data on key components of PPIPs and barriers and facilitators to their operation.

Data synthesis: Over half of studies were published after 2002 and over half originated from the United States, the United Kingdom, Australia and Germany. CPGs that involved patients and the public addressed a variety of health problems, especially mental health and cancer. The most frequently cited objective for using PPIPs in developing CPGs was to incorporate patients' values or perspectives in CPG recommendations. Patients and their families and caregivers were the parties most often involved. Methods used to recruit PPIP participants included soliciting through patient/public organizations, sending invitations, and receiving referrals and recruits from clinicians. Patients and the public most often participated by taking part in a CPG working group, workshop, meeting, seminar, literature review, or consultation such as a focus group, individual interview, or survey. Patients and the public principally helped formulate recommendations and revise drafts.

Limitations: We did not contact the authors of the studies.

Conclusion: Our literature review provides an extensive knowledge base for making PPIPs more effective when developing and implementing CPGs. More research is needed to assess the impact of PPIPs and resources they require.

Introduction

Clinical practice guidelines (CPGs) are systematically developed statements designed to help practitioners and patients decide on health care for specific clinical circumstances.¹ The implementation of CPGs in clinical practice is expected to improve patient outcomes by promoting interventions of proven benefits and discouraging ineffective one.² Also, CPGs accompanied by consumers' versions may empower patients to make more informed healthcare choices.² Productive interactions—such as shared decision making between active and informed patients and their healthcare providers have been shown to be a key component of good care.³ Involving patients in decisions also produces a better decision-making process, more personal comfort with the decision,⁴ a reduction in the overuse of options that are not beneficial for the vast majority, an increase in the options known to be beneficial,⁵ and better patient quality of life .⁶ Nonetheless, implementing CPGs has been a major challenge.⁷ CPGs often fail to reconcile patients' preferences and social norms with best evidence^{8, 9} and do not always account for patients' increased demands to play a more active role in their own care.¹⁰⁻¹²

Involving patients and the public when developing and implementing CPGs is therefore attractive because of its potential to address the gaps between patients preferences and best evidence.^{10, 12, 13} Yet there is little guidance as to the design of patient and public involvement programs (PPIPs) in the context of CPGs.¹⁴ Consequently, we reviewed and synthesized the existing knowledge (published and unpublished) to identify and appraise the key components of PPIPs in the development and implementation of CPGs.¹⁵

Methods

Data sources

A detailed description of our search methods can be found elsewhere.¹⁵ Briefly, with the help of an information specialist, we searched bibliographic databases and the reference lists of relevant articles for English and French documentation on PPIPs in the development and implementation of CPGs published before January 2009. With help from the Guidelines International Network Public Working Group, we searched for grey literature by writing to the email lists of relevant organizations and by contacting provincial and national institutions involved in the production and implementation of CPGs.

Selection criteria

To be included, the document had to (1) refer to the development or implementation of a CPG; (2) refer to patients (people with a personal experience of the disease, the health intervention, or the service discussed in the CPG, as well as their family members and caregivers) and/or members of the public (members of society interested in healthcare services, whose life could be directly or indirectly affected by the CPG); and (3) refer to a PPIP (at a minimum, refer to a formal method of involving patients and/or the public in the development or implementation of a CPG). Eligible documents included original qualitative, quantitative, or mixed methods studies and reports produced by academics or by national, governmental, for-profit or nonprofit organizations.

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Two research assistants screened all the documents thus retrieved to determine which were relevant. Any disagreements were resolved in discussions with the co-principal investigators (FL and AB).

Data extraction

The data from all relevant documents were independently extracted by pairs of research assistants who used a data extraction form employed in previous work in this field.¹⁶⁻¹⁹ The data collected consisted of 1) characteristics of the documents; 2) key components of the PPIP (who was involved, how and for what purpose were they involved, and at what stage of the CPG's development were they involved); and 3) the context in which the PPIP was developed and tested: namely, perceived barriers and facilitators and the impact of the PPIP on involvement and other outcomes. Pairs of reviewers compared abstracted information. Any disagreements were resolved in research team meetings.

Data analysis

A research assistant entered the abstracted information into a data matrix to facilitate comparison of how PPIPs performed on each principal component. Template content analysis was used to organize the principal components into a meaningful framework.²⁰ We computed the frequency of mention of each principal component extracted.

This study was funded by a knowledge synthesis grant from the Canadian Institutes of Health Research (CIHR). CIHR had no role in the study.

Results

Included documents

Of the 2104 articles identified in bibliographic databases, 38 were eligible for our review. In addition, we obtained 57 reports from relevant organizations: of these, we included 33 reports in our review. After reviewing the material, we concluded that 7 of the 38 studies were more akin to grey literature reports than to studies. Our review thus consisted of 71 documents: 31 studies from peer-review publications and 40 reports from the grey literature. Figure 1 shows the flow of the data synthesis.

Characteristics of the documents

All documents included in our review (table 1) were produced from 1996 to 2008. More than half (49/71)²¹⁻⁶⁹ were produced after 2002. Most originated from the United States (23/71),^{21, 31, 35, 39, 40, 42, 43, 54, 62, 64, 69-81} the United Kingdom (15/71),^{23, 24, 30, 33, 36, 48, 50, 51, 60, ^{63, 68, 82-85} Australia (8/71)^{34, 37, 38, 56, 61, 86-88} and Germany (5/71).^{45, 47, 57-59} Most of the published studies were descriptive (22/31)^{22, 23, 25, 32, 40, 44-46, 48, 49, 56, 62, 64, 68, 69, 71, 72, 77, 79, 80, ^{82, 87} and used qualitative methods (22/31).^{23, 25, 32, 35, 37, 38, 40, 45, 46, 48, 49, 62, 64, 68-71, 75, 79, 80, 82, 88}}}

CPGs that had involved a PPIP addressed a variety of health problems. Mental health $(13/71)^{24, 27, 37, 38, 52, 56, 62-64, 69, 72, 78}$ and cancer $(8/71)^{28, 30, 40, 42, 45, 75, 84, 87, 89}$ were overly represented. The CPGs mainly targeted users: patients $(13/71)^{22, 26, 28, 41, 45, 48, 54, 60, 70, 71, 75, 84, 87, 89}$

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^{76, 84, 88} physicians (13/71),^{25, 35, 40, 45, 54, 60, 69, 71, 75, 87-90} other health professionals (12/71)^{26, 28, 31, 41, 42, 54, 64, 75, 77, 78, 87} and the public (8/71).^{22, 37, 38, 44, 49, 86, 89}

Patient and public involvement programs in CPGs

The patient and public involvement programs and interventions discussed in the documentation are described in table 1. In general, the studies and reports provided a superficial description of the process of development of the CPG and the components of the PPIP involved. Only one study, from Australia, assessed the PPIP's impact on participants.⁸⁸ Reports from organizations made more detailed presentations of the components of the PPIP and the practicalities of involving patients and the public in CPG development and implementation activities.

The most frequently cited objective of using PPIPs to develop CPGs was to incorporate patients' values, preferences, knowledge or perspectives in CPG recommendations (23/71).^{21, 25, 28, 30, 33, 37-39, 41, 47, 50, 51, 54, 57, 60, 61, 64, 67, 77, 81, 83, 85, 87} Other objectives were to improve the implementation of the CPG (7/71),^{26, 39, 50, 55, 59, 65, 66} increase the comprehensiveness of the CPG (7/38),^{49, 58, 72, 76, 85, 86, 89} promote patients' or the public's influence over the CPG development process (6/71),^{22, 25, 43, 82, 85, 88} and adapt CPGs to the target population (5/71).^{32, 46, 70, 79, 80}

Individual patients $(45/71)^{24-33, 35-39, 41, 46, 48, 50-53, 55-57, 60, 62, 64-67, 69-73, 76, 77, 80, 82, 83, 85, 87, 91}$ and patient representatives (family, caregivers) $(32/71)^{23, 25, 28, 30, 32-34, 36-41, 43, 50, 51, 53, 54, 59, 60, 62, 63, 65, 66, 69, 70, 76, 83, 85, 88, 91}$ were the parties most frequently involved in PPIPs, followed by a more diverse group of individuals (e.g., community leaders and individuals without health problems but who might use the CPG in future) (14/71). ^{39, 44, 47, 49, 50, 60, 68, 70, 74, 78, 79, 81, 86, 89} Methods used to recruit patients or the public in the CPG development process were rarely described, but recruiting through patient/public organizations (12/71), ^{28, 30, 33, 37, 38, 41, 49-51, 60, 70, 83} sending invitations (8/71)^{33, 45, 50, 82, 84, 85, 87, 90} and receiving referrals and/or recruits by clinicians (6/71)^{25, 32, 37, 38, 77, 88} were mentioned.

Most often, patients and the public helped develop CPGs by participating in a CPG working group (28/71);^{22, 23, 27-30, 33, 34, 39, 42, 43, 45, 47, 50, 51, 53, 54, 57, 60, 61, 65-67, 71, 75, 78, 85, 89 a workshop, meeting or seminar (10/71);^{23, 33, 39, 43, 48, 61, 71, 75, 82, 85} a literature review (7/71);^{23, 35, 40, 42, 43, 45, 78} or a consultation such as a focus group (24/71),^{25, 27, 28, 30, 32, 33, 39, 41, 44, 47-49, 55, 61, 65, 69, 70, 72, 79, 80, 84, 86, 88, 89 an individual interview (11/71),^{24, 25, 32, 36, 39, 41, 44, 46, 64, 81, 87} or a public poll or survey (9/71).^{33, 47, 52, 61, 63, 65, 68, 73, 77}}}

Patients and the public were mainly involved at the stage of formulating recommendations (28/71), ^{22, 25, 28, 30, 34, 35, 39, 40, 46, 48, 50, 51, 54, 55, 57, 60-62, 64, 67-70, 77-80, 88 synthesizing the knowledge $(25/71)^{23, 27, 28, 30, 32-35, 39-43, 45, 51, 54, 59, 60, 62, 68, 71, 78, 84, 89}$ and revising drafts (23/71).^{25, 30, 32, 33, 39, 41-43, 49-51, 54, 56, 57, 59, 67, 72, 74, 84-87, 90} In some reports, patients and the public helped make strategic decisions about the CPG development process (e.g., the scope, what actors to involve) $(15/40)^{28, 33, 34, 41, 47, 50, 55, 59-61, 67, 91}$ or the development of products for patients or the public (e.g., information material, decision aids) (14/40).^{28, 30, 33, 34, 41, 42, 47, 50, 57, 58, 60, 65, 76, 89}}

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The studies and reports indicated that PPIPs require the following material resources: written documentation (publications, reports, reminders, booklets, handbooks) (15/71),^{26,} ^{28, 31, 33, 36, 40, 43-45, 47, 54, 60, 71, 77, 81} draft or existing CPGs (14/71),^{23, 32, 33, 40, 42, 43, 45, 49, 56, 71, ^{72, 85, 87, 90} questionnaires (e.g. validated, self-administered questionnaires or interview guides) (12/71), ^{32, 37, 38, 44, 45, 48, 70, 72, 77, 79, 80, 82} recording material (tape recorders and video cameras) (9/71) ^{25, 28, 44, 46, 48, 49, 79, 85, 90} and financial resources (4/71),^{60, 70, 85, 91} The human resources required by PPIPs were a facilitator or chairperson (6/71),^{30, 48, 64, 79, 82, 90} a project coordinator (4/71),^{28, 30, 33, 60} a translator,⁴⁹ a trained interviewer ⁴⁴ and a trained moderator.⁴⁴}

Lessons learned by CPG development organizations

Few documents reported detailed lessons learned by CPG development organizations that had employed a PPIP. Some organizations held a positive opinion of their experience with the PPIP, feeling that the PPIP had helped formulate extra key questions, had changed existing questions,³⁰ or had encouraged patients to join healthcare practitioners in making decisions.^{47, 58} For example, for one organization, patients' input helped ensure that the complex medical terminology used in the CPG would be widely understood. This was felt to be necessary for enhancing the community's understanding of current health and disability issues and increasing community access to the most appropriate health services.⁹¹

Another organization reported extensively on its experience with the PPIP.⁸⁵ This organization felt that patients experienced difficulty with the technical language and

contributed infrequently to the discussion. The organization therefore developed a series of workshops in which it explained the technical elements of CPG development to patients, who then made relevant suggestions. However, this process was resourceintensive. This organization also felt that involving an "expert" patient was helpful but acknowledged that this "expert patient may not be representative." The organization concluded that a range of methods for involving patients and the public was ideal⁸⁵ and suggested that involving consumers both in CPG development groups and in other structures, such as focus groups or surveys that informed the CPG development groups, should be considered. Two organizations opined that it was necessary to involve patients or the public at every stage of the CPG development process and at individuals' desired level of involvement.^{66, 85} Other organizations suggested that it was better to involve patients before the process officially began.^{55, 65, 67} The organizations also pointed out that participation in a CPG development group requires abilities or skills necessary for effective group processes, such as communication skills,^{30, 41, 50, 60} teamwork skills,^{33, 50, 60} and the ability to represent the views of a wider group.^{30, 50, 60}

Feedback by PPIP participants

One organization reported that patients felt that they had little or no influence on finance, group composition, literature searches, and the measurement of the effects of the CPG.⁵⁵ However, patients considered they had some influence on defining key questions for the CPG, writing questions used to search the literature, selecting and reviewing the literature, writing text, implementing the CPG, and developing information for patients. Patients believed their greatest influence was defining key problems for CPGs to address,

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writing recommendations, and reviewing draft guidelines.⁵⁵ This feedback is congruent with what other organizations have reported: the impact of patients' involvement is felt to be small (e.g., patients help choose the words used to formulate recommendations) and their influence on debates is rarely measured.²⁸ Some experts expressed reserve toward PPIPs because of what they felt was patients' inability to act on highly technical documents.²⁸

Few organizations formally assessed patients' and the public's satisfaction following their participation in a CPG development process. Overall, and despite the variability of the experiences reported, the respondents were generally satisfied with having been part of a CPG development group. For example, 72 percent of participants in CPG development groups led by the National Institute for Health and Clinical Excellence (NICE) rated their overall experiences as excellent or very good. These participants were generally positive about the methodology adopted and the final CPG. Lay members were enthusiastic about the version for patients and caregivers and its intended use and they valued the personal development opportunities that involvement in the guideline development group had afforded them.⁶³ In a study by Wilson et al, 90 percent of parents felt that participating in a CPG development group was an informative process and nearly 67 percent said that they gained valuable knowledge and felt more confident in caring for their sick children.⁸⁸

The New Zealand Guidelines Group (NZGG) conducted an evaluation survey of consumers involved in the development of their CPGs⁵². Although respondents were

generally satisfied with the final guideline, some had experienced resistance to their input and had felt isolated, while others had felt accepted and valued. Interestingly, 11 of 12 respondents said that they would be willing to participate in a CPG development group again.⁵² In contrast, some participants mentioned that they were often concerned that the hard work that had gone into developing the recommendations had not translated into actual changes in practice.⁶³ Some parents involved in focus groups in the Wilson study mentioned that more information at the outset would have been useful and felt that the discussions had been one-sided.⁸⁸ Other patients reported having had great difficulty in understanding the complexity and technicality of the subject, and having felt maladjusted to the procedure. These feelings were compensated by a strong sense of belonging to the working group.²⁸

Barriers and facilitators to PPIPs

Table 2 details barriers and table 3, facilitators to PPIPs in the development of CPGs, based on excerpts from the publications included in our review.

Notably, a discrepancy between the perspectives of experts and patients/the public was the most frequently reported barrier (8/71).^{28, 38, 55, 57, 63, 65, 66, 91} Other frequently mentioned barriers were the difficulty of recruiting patients or representatives of the public (7/71),^{27, 28, 37, 39, 47, 66, 67}, the lack of representativity of patients and members of the public (6/71),^{52, 65, 28, 39, 55, 66} and PPIP participants' lack of familiarity with the scientific and medical terminology (5/71),^{27, 28, 67, 85, 91}

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The two most frequently reported facilitators were training (14/71)^{28, 30, 33, 36, 39, 50-53, 60, 63, 65-67} and support from the staff and the organization (12/71).^{27, 28, 30, 33, 36, 39, 50, 53, 60, 63, 65, 85} For example, some organizations offered training days and seminars to assist PPIP participants with technical matters and critical appraisal skills.^{30, 33, 50, 52, 60} Support took the form of telephone and email assistance,^{28, 30, 33} mentoring,^{53, 55, 66} a supportive chair of the guideline development group,^{33, 55} an analysis grid for knowledge synthesis,²⁸ or a "welcome pack" for selected patients.⁵⁰ Providing assistance with complex scientific and technical issues was another valuable way to optimize the participation of patients and public,^{36, 52, 53, 65, 91} as was offering participants opportunities to interact with other patients who had participated in the development of CPGs^{28, 52, 60}. Other facilitators included clear expectations about the process (e.g., who was involved and what role they were expected to fill, disclosure of the funds available, and specification of the time commitment expected) (9/71) ^{33, 36, 50, 52, 55, 91} 65, 66</sup> and involving a group of patients rather than a single patient (8/71).^{41, 47, 51, 53, 55, 65, 67}

Discussion

We identified 71 documents that reported on PPIPs in the context of the development and implementation of CPGs. Only a few of these documents contained substantial information about the key components of PPIP and the resources needed including financial resources. Very few documents provided information on the impact of PPIPs on the development and implementation of CPGs in clinical practice and none discussed health outcomes. Although reports were more likely than studies to provide information

on participants' perceptions of their experience, very little quantitative impact assessment took place. Nonetheless, this knowledge synthesis is among the first to provide decisionmakers with several elements of practical guidance.

First, there is a perception that it is difficult to reconcile the preferences of patients and the public with the views of experts (health professionals). Also, patients find it difficult to affirm their views and experiences in the presence of evidence-based information and complex scientific and medical terminology.^{28, 55, 65} Several CPG organizations have developed structured training and support to address these issues. Therefore, it is possible to adapt PPIPs so as to deepen patients' and the public's understanding of and confidence in scientific information.

Second, many fear that patients or members of the public who participate in a PPIP may not be representative.²⁸ The World Health Organization has reviewed NICE's experience of involving patients and public in CPGs and concluded that it is uncertain whether the right stakeholders were involved and whether their input was as efficient as it could have been. However, prevalent participation methods (such as involving patients in CPG development groups) dictate small numbers of participants,⁹² and it may be inappropriate to expect one or two patients to represent the views of large segments of the population. Other authors have challenged PPIP sponsors to clarify their understanding of representativeness and adapt their involvement methods and recruitment strategies accordingly.⁹³ Some organizations have responded by using structured open recruitment

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strategies and by complementing their participation methods with larger consultations such as surveys and online comment options.⁵¹

Third, and related to the above, better evaluations of the methods used to involve patients and members of the public are essential. A Cochrane systematic review on methods of involving consumers in developing healthcare policy and research, CPGs and patient information material found 6 eligible trials.¹⁴ None focused on CPGs.

Fourth, training and supporting patients and members of the public who are participating in a PPIP should focus not only on critical appraisal skills but also on the skills needed to participate in a group process. Attention should also be paid to the role that chairs and other guideline developers can play in supporting PPIP participants.

Notwithstanding its interesting results, this knowledge synthesis has limitations. First, the significant proportion of grey literature in our source material (33/71) is evidence of the extensiveness of our search for eligible documents. However, we cannot exclude that we may have overlooked important documents. Second, we did not contact the authors of the studies or reports for elaboration on their findings. More research is needed to identify the key components of successful PPIPs and the resources they need, and to assess their impact on the quality of care.

Nonetheless, our knowledge syntheses' provides an extensive knowledge base for elaborating effective PPIPs in the context of developing and implementing CPGs in the

future. This could also help standardize PPIP reporting. The review provides three main lessons. First, there are many ways to involve patients in developing CPGs and patient information material. Second, patients' involvement tends to produce material that is more relevant, readable, understandable, and less likely to make the reader anxious. However, future research will need to assess the impact of PPIP in the context of CPGs on the quality of care and health outcomes.

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First author	Source,	Author's	Disease/	Objective	Description	Who was	Participation at what
Year	study design,	institution	health	of the PPIP	of activity	involved	stage
	methodological	or organization	problem		(ies)		of CPG development
	approach		addressed by				
			the CPG				
McConnell	Report by	U.S. Department	Benign	To evaluate the	Public polls or	Individual	Unclear
1994	organization	of Health and	prostatic	preferences of actual	surveys	patients	
		Human Services	hyperplasia	patients in regards to			
			(BPH)	the simplified			
				version of the CPG			
Duff	Published study;	Royal College of	Not	To promote	Seminar	Individual	Strategic decisions
1996	descriptive	Nursing	mentioned	patient/public		patients	
	study;			influence over the			
	qualitative			process			
Rischer	Published study;	HealthInsight,	Cancer	Not mentioned	Participation	Representatives	Dissemination/
1996	intervention	Utah - Nevada			in the CPG	of patients'	implementation
	study				working	group(s)	

1 2								
3 4		(before/after);				group;		
5 6		qualitative				meetings		
7 8	Schofield	Published study;	Cancer Education	Cancer	To incorporate	Individual	Individual	Review of draft
9 10	1996	descriptive	Research Program,		patients' values,	interviews	patients	
11 12 13		study; mixed	University of		preferences,			
13 14 15			Newcastle		knowledge and			
16 16 17					perspectives in CPG			
18 19					recommendations			
20 21	Collège des	Report by	Collège des	Prostate	To validate the	Focus groups;	Individual	Knowledge synthesis,
22 23	Médecins du	organization	Médecins du	cancer	clarity and	participation	citizens	evaluation of specific
24 25	Québec		Québec		acceptability of	in the		products for
26 27 28	1998				information leaflet	CPG working		patients/public
29 30					designed for the	group		
31 32					public			
33 34	Friedman	Published study;	Lovelace Health	Diabetes	Not mentioned	Patient	Individual	Knowledge synthesis,
35 36	1998	descriptive	System			information	patients	dissemination/
37 38		study;				material;		implementation
39 40 41		qualitative				participation		
41 42 43								
44 45								
46 47				http://mc.	manuscriptcentral.con	n/mdm		

Medical Decision Making

					in the CPG		
					working		
					group;		
					team meetings		
Schulberg	Published study;	The Agency for	Depression	Not mentioned	Participation	Individual	Knowledge synthesis,
1998	review of	Health Care Policy			in the CPG	citizens;	formulation of
	literature; mixed	and Research			working	representatives	recommendations
		(AHCPR)			group;	of citizens'	
					literature	group(s)	
					review		
Steward	Report by	Clinical Decision	Not	To incorporate	Individual	Individual	Unclear
1998	organization	Making Group,	mentioned	patient's	interviews	citizens	
		Massachussets		values, preferences,			
		Institute of		knowledge and			
		Technology		perspectives in CPG			
				recommendations			
Rymer	Report by	Saint Luke's	Stroke	To increase the	Patient	Individual	Development of patient
1999	organization	Hospital Stroke		general population's	version of	patients and	products
			http://mc.ı	manuscriptcentral.com	/mdm		

Medical Decision Making

2 3								
3 4			Center, Kansas		understanding of the	guideline	patients'	
5 6			City, Missouri		CPG		representatives	
7 8	Lanza	Published study;	Nurse Manager	Assaultive	To increase the	Focus groups;	Individual	Review of draft
9 10	2000	descriptive	Veterans Center	behavior	general population's	written	patients	
11 12 13		study; mixed	for Addiction		understanding of the	consultations.		
14 15			Treatment; Edith		CPG			
16 17			Nourse Rogers					
18 19			Memorial					
20 21			Veterans Hospital,					
22 23			Bedford,					
24 25			Massachusetts					
26 27 28	Shoultz	Published study;	Frances A.	Alcohol,	To adapt CPGs to the	Focus groups	Individual	Formulation of
29 30	2000	descriptive	Matsuda	smoking and	population's		patients	recommendations
31 32		study;	Foundation;	drug use	characteristics			
33 34		qualitative	Hawaii					
35 36			Community					
37 38 39			Liaisons Nurse's					
40 41			Association;					
42 43								
44 45								
46 47				http://mc.r	nanuscriptcentral.com	n/mdm		
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van Wersch	Report by	North of England	Asthma,	To promote	Meetings;	Individual	Strategic decisions,
2000	organization	Evidence Based	angina,	patients'/the public's	workshops;	patients;	review of draft
		Guideline	myocardial	influence over the	CPG working	patients'	
		Development	infarction	process;	group	representatives	
		Programme		to incorporate			
				patient's values,			
				preferences,			
				knowledge and			
				perspectives in CPG			
				recommendations;			
				to increase the			
				general population's			
				understanding of the			
				CPG			
Wilson	Published study;	Information not	Acute	To promote	Focus groups	Patients'	Formulation of
2000	randomized	available	respiratory	patient/public		representatives	recommendations
			http://mc.n	nanuscriptcentral.com	/mdm		

1 2								
3 4		controlled trial;		infection	influence over the			
5 6		qualitative			process			
7 8	Women's Health	Report by	Women's Health	Not	To ensure that the	Unclear	Individual	Strategic decisions
9 10	Action	organization	Action	mentioned	rights		patients,	
11 12 13	2000				of consumers are		patients'	
13 14 15					upheld and		representatives,	
16 16 17					consumers' input is		representatives	
18 19					valued		of citizens'	
20 21							groups	
22 23	Egger	Report by	Department of	Excessive	To increase the	Focus groups	Individual	Review of draft
24 25 26	2001	organization	Health and Aged	weight and	general population's		citizens	
20 27 28			Care	obesity	understanding of the			
29 30					CPG			
31 32	Southern African	Report by	Southern African	Hypertension	Not mentioned	Consensus	Representatives	Review of draft
33 34	Hypertension	organization	Hypertension			meeting	of citizens'	
35 36	Society		Society				group	
37 38 39	2001							
40 41								
42 43								
44 45								
46 47				http://mc.n	nanuscriptcentral.com	/mdm		
48 ⊿9								

Braun 2002	Published study; intervention study (before/after); qualitative	The Pacific Diabetes Today Resources Center (PDTRC)	Diabetes	To adapt the CPG to the population's characteristics	Training of community members to lead discussion	Individual citizens and representatives of citizens' groups	Formulation of recommendations
					groups; focus groups	Individual patients and patients' representatives	
Kelson 2002	Report by organization	National Guidelines and Audit Patient Involvement Unit in collaboration with National Institute for Clinical Excellence (NICE)	Not mentioned	To develop fair, transparent and defensible methods for patient/caregiver involvement; to ensure that patient issues and perspectives are directly addressed	Unclear	Individual patients and patients' representatives	Unclear

1 2								
3 4					and presented in			
5 6					ways that are			
7 8					meaningful and			
9 10					acceptable to patients			
11 12	National Kidney	Report by	National Kidney	Chronic	To review National	Unclear	Individual	Review of draft
13 14	Foundation	organization	Foundation	kidney disease	Kidney Foundation		citizens	
15 16	2002				clinical practice			
17 18 19					guidelines			
20 21	Pell	Published study;	Information not	Prophylactic	To use patient-	Focus groups	Representatives	Formulation of
21 22 23	2002	intervention	available	oophorectomy	specific information		of citizens'	recommendations,
24	2002		uvunuore	oophoreetoniy	-			
25 26		study			on risks and		group	review of draft
27 28		(before/after);			preferences to			
29 30		mixed			provide guidance			
31 32	Scherer	Published study;	The Institute for	Rehabilitation	To incorporate	Survey;	Individual	Formulation of
33 34	2002	descriptive	Matching Person		patients' values,	nominal group	patients	recommendations
35 36		study; mixed	& Technology Inc		preferences,	technique		
37 38					knowledge and			
39 40					perspectives in CPG			
41 42					~ *			
43 44								
45								
46 47				http://mc.m	nanuscriptcentral.com	n/mdm		
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recommendations

Shoultz	Published study;	University of	Violence	To adapt CPG to the	Focus groups	Individual	Formulation of
2002	descriptive	Hawaii School of	against	population's		citizens	recommendations
	study;	Nursing and	women	characteristics			
	qualitative	Dental Hygiene,					
		Kauai Community					
		College					
Behets	Published study;	The	Sexually	To promote	CPG working	Representatives	Determining what
2003	descriptive	nongovernmental	transmitted	patients'/the public's	group	of citizens'	intervention options,
	study; mixed	"67 Ha Clinic" in	infections	influence over the		group (sex	recommendations, and
		Antananarivo; the		process		workers)	information to include in
		public dispensary					the CPG
		in Tamatave					
Bond	Published study;	Grampian	Vulvovaginal	Not mentioned	Meetings;	Patients'	Knowledge synthesis,
2003	descriptive	Evidence Based	candidiasis		literature	representatives	development of a draft,
	study;	Community			review;		revision of the final CPG
	qualitative	Pharmacy			nominal group		

		Guidelines Group			technique;		
					participation		
					in the CPG		
					working		
					C		
Global Program	Report by	World Health	Not	Not mentioned	Participation	Individual	Unclear
on Evidence for	organization	Organization	mentioned		in the	patients	
Health Policy					CPG working		
2003					group		
Hadjistavropoul	Published study;	Regina Qu'Appelle	Community	To adapt the CPG to	Individual	Individual	Evaluation of case
OS	descriptive	Health Region	case	the population's	interviews;	patients;	management time,
2003	study;		management	characteristics	focus groups	patients'	review of draft
	qualitative		for elderly			representatives	
	•		-				
NZGG	Report by	New Zealand	Atrial	To better advocate	Public polls	Individual	Evaluation survey
2003	organization	Guidelines Group	fibrilation,	for an approach to	and	patients	of consumers involved in
		Inc. (NZGG)	elders' health,	participation that	surveys		CPGs
			women's	meets consumers'			
	Health Policy 2003 Hadjistavropoul os 2003 NZGG	on Evidence for organization Health Policy 2003 Hadjistavropoul Published study; os descriptive 2003 study; qualitative	Global ProgramReport byWorld Healthon Evidence fororganizationOrganizationHealth Policy2003HadjistavropouPublished study;Health Region2003study;2003study;2003Study;2003Report byNew ZealandNZGGReport byNew Zealand2003organizationGuidelines Group	Global ProgramReport byWorld HealthNoton Evidence fororganizationOrganizationmentionedHealth Policy </td <td>Global ProgramReport byWorld HealthNotNot mentionedon Evidence fororganizationOrganizationmentionedHealth Policy<!--</td--><td>participation in the CPG in the CPG working in the CPG working in the CPG working in the CPG of the CPG working in the CP</td><td>And the set of th</td></td>	Global ProgramReport byWorld HealthNotNot mentionedon Evidence fororganizationOrganizationmentionedHealth Policy </td <td>participation in the CPG in the CPG working in the CPG working in the CPG working in the CPG of the CPG working in the CP</td> <td>And the set of th</td>	participation in the CPG in the CPG working in the CPG working in the CPG working in the CPG of the CPG working in the CP	And the set of th

1 2								
- 3 4				health	needs and			
5 6				(caesarean),	expectations			
7 8				mental health				
9 10				(depression,				
11 12				suicide				
13 14				prevention),				
15 16				hormone				
17 18								
19 20				replacement				
21 22				therapy,				
23 24				diabetes				
25 26	Pijnenborg	Report by	Dutch College of	Low back	To improve CPG	Focus groups	Individual	Strategic decisions,
27 28	2003	organization	General	pain, eczema,	implementation and		patients	formulation of
29 30			Practitioners;	rheumatoid	quality			recommendations
31 32			Dutch Institute for	arthritis,				
33 34			Healthcare	psoriasis				
35 36			Improvement					
37 38	Royal Australian	Published study:	The Royal	Panic	Not mentioned	Not	Individual	Review of draft
39 40	-		•		The mentioned			Review of draft
40 41 42	and New	descriptive	Australian and	disorder,		mentioned	patients	
43								
44 45								
46 47				http://mc.m	nanuscriptcentral.com	n/mdm		
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1 2								
3 4	Zealand College	study; mixed	New Zealand	agoraphobia				
5 6	of Psychiatrists		College of					
7 8	Clinical Practice		Psychiatrists					
9 10	Guidelines Team							
11 12 13	for Panic							
13 14 15	Disorder and							
16 17	Agoraphobia							
18 19	2003							
20 21	Guihan	Report by	The Veterans	Spinal cord	To foster patients'	Patient	Individual	Dissemination/implement
22 23	2004	organization	Health	injury	adherence to	information	patients	ation
24 25 26			Administration,		recommendations	material		
20 27 28			Department of					
29 30			Veterans Affairs					
31 32	Jarett	Report by	National Institute	Not	To explore the	Individual	Individual	Unclear
33 34	2004	organization	for Health and	mentioned	experiences of	interviews;	patients and	
35 36			Clinical		patients/caregivers	participation	patients'	
37 38 39			Excellence (NICE)		involved in CPG	in the CPG	representatives	
40 41					development groups;	development		
42 43								
44 45								
46 47				http://mc.r	manuscriptcentral.com	/mdm		
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				to identify good	group		
				practices, highlight			
				problems, and			
				improve the process			
				for future groups			
Landier	Report by	Children's	Children's	Not mentioned	Participation	Representatives	Knowledge synthesis,
2004	organization	Oncology Group	cancer		in the CPG	of patients'	development of a draft,
		(National Cancer	aftermath		working	group(s)	review of draft;
		Institute)			group;		development of patient
					Literature		products
					review		
Luboldt	Published study;	The German	Prostate	Not mentioned	Participation	Representatives	Literature review, final
2004	descriptive	Urology	cancer		in the CPG	of patients'	revision
	study;	Association,			working	group(s)	
	qualitative	European			group;		
		Randomised			literature		
		Screening for			review;		
		Prostate Cancer			nominal group		
			http://mc.	manuscriptcentral.com	n/mdm		

			technique			(ERSPC), German		
						Association of the		
						Scientific Medical		
						Societies or		
						AWMF		
nthesis,	Knowledge synthe	Patient	Participation	To incorporate	Children's	Cincinnati	Report by	Phelan
ı of	formulation of	representatives	in the	patient's	health	Children's Hospital	organization	2004
s, review	recommendations, r	(parents of	CPG working	values, preferences,		Medical Center		
	of draft	affected	group	knowledge and				
		children)		perspectives in CPG				
				recommendations				
	Unclear	Individual	Participation	To improve CPG	Not	Dutch Institute for	Report by	van Vuuren
		patients,	in the	implementation	mentioned	Healthcare	organization	2004
		patients'	CPG working			Improvement		
		representatives	group					
			n/mdm	manuscriptcentral.com	http://mc.r			
	Unclear	Individual patients, patients'	in the CPG working group	recommendations To improve CPG implementation	mentioned	Healthcare		

Marshall 2005	Report by organization	German Agency for Quality in Medicine and New Zealand Guideline Group (NZGG)	Not mentioned	To incorporate patients' values, preferences, knowledge and perspectives in CPG recommendations	Participation in stakeholders' groups; participation in the CPG working group; focus groups; public polls or surveys	Stakeholders, individual citizens	Strategic decisions, unclear; development of products for patients/the public, dissemination/ implementation
Sänger 2005	Report by organization	German Agency for Quality in Medicine	Not mentioned http://mc.u	To better adapt CPGs to patients' needs; to address patients' most important problems; to encourage patient autonomy;	Unclear /mdm	Representatives of patients and representatives of patients' groups (6 patient representatives	Strategic decisions, knowledge synthesis, development of a draft, review of the draft, final revision

1 2								
2 3 4					to foster acceptance		are involved in	
5 6					of patients' version		each CPG	
7 8					of CPGs;		process)	
9 10					to improve			
11 12					implementation by			
13 14					supporting the			
15 16					implementation			
17 18					process			
19 20					I			
21 22 23								
23 24 25								
26 27								
28 29								
30 31	Suppes	Published study;	The Texas	Bipolar 1	To review the newest	Consensus	Individual	Knowledge synthesis,
32 33	2005	descriptive	Department of	disorder	available evidence to	conference	patients and	formulation of
34 35		study;	State Health		guide the selection of		patients'	recommendations
36 37		qualitative	Services (TDSHS),		treatments,		representatives	
38 39			formerly the Texas		maintenance			
40 41								
42 43								
44 45				latter ller -	manual states and a sur-	/www.cl.we		
46				nttp://mc.	manuscriptcentral.com	mam		

1 2									
3 4			Department of		treatment, and issues				
5 6			Mental Health and		regarding safety and				
7 8			Mental		adverse effects in the				
9 10			Retardation		treatment of bipolar				
11 12					disorder				
13 14 15	van Vaanandaal	Report by	Dutch Institute for	Not	To improve CPGS	Focus groups;	Individual	Development of	
16 17	2005	organization	Healthcare	mentioned	and their	public polls or	patient, patients'	products for patients/the	
18 19			Improvement		implementation	surveys;	representatives	public and dissemination/	
20 21						participation		implementation	
22 23						in the CPG			
24 25						working			
26 27						group			
28 29 30	de Joncheere	Report by	National Institute	Nutrition,	Not mentioned	Individual	Individual	Unclear	
30 31 32	2006	organization	for Health and	tuberculosis,		interviews	patients,		
33 34			Clinical	anxiety,			representatives		
35 36			Excellence (NICE)	obsessive-			of patients'		
37 38				compulsive			group		
39 40				disorder,			(stakeholders'		
41 42							× ×		
43 44									
45 46				http://mc.n	nanuscriptcentral.com	n/mdm			
47 48 49									

1 2 3 4 5 6 7				contraception, pressure ulcers			representatives)	
8 9 10	Deschepper	Published study;	Information not	End-of-life	To promote	Focus groups;	Individual	Review of draft,
11 12	2006	descriptive	available	(heterogeneity	patients'/the public's	quality circle	patients and	formulation of
13 14 15		study;		regarding	influence over the	(consecutive	patients'	recommendations
16 17		qualitative		disease)	process;	discussion	representatives	
18 19					to incorporate	sessions) with		
20 21					patient's	various		
22 23					values/preferences	caregivers;		
24 25 26					knowledge and	individual		
27 28					perspectives in CPG	interviews		
29 30					recommendations			
31 32	Dijkstra	Published study;	Centre for Quality	Type 2	To improve	Patient	Individual	Development of products
33 34	2006	randomized	of Care Research	diabetes	implementation of	information	patients	for patients;
35 36 37		controlled trial;			CPG	material;		dissemination/
37 38 39		quantitative				educational		implementation
40 41						meetings		
42 43								
44 45								
46 47				http://mc.m	nanuscriptcentral.com	n/mdm		
48 ⊿9								

Landsman	Report by	New York State	Cerebral palsy	To promote	Participation	Patients'	Knowledge synthesis,
2006	organization	Department of	and motor	patients'/the public's	in the CPG	representatives	development of a draft,
		Health	delay	influence over the	working		review of a draft
				process	group;		
					meetings;		
					literature		
					review		
Maputle	Published study;	University of	Childbirth	To adapt CPG to the	Participant	Individual	Formulation of
2006	descriptive	Limpopo; Level III		population's	observation;	patients	recommendations
	study;	hospital in		characteristics	individual	-	
	qualitative	Limpopo Province			interviews;		
	1				unstructured		
					conversations		
Murie	Published study;	Royal College of	Coronary	To promote	Workshops;	Individual	Formulation of
2006	descriptive	General	heart disease	informed, value-	focus groups.	patients	recommendations;
	study;	Practitioners		based healthcare		-	development of patient
	qualitative			decisions by			products
	Ĩ			individual patients;			L
				r			
			http://mc.m	nanuscriptcentral.com	/mdm		

1 2								
2 3 4					to foster patients'			
5 6					adherence to			
7 8					recommendations			
9 10	NICE	Report by	National Institute	Not	To incorporate	Patient	Individual	Strategic decisions,
11					*			
12 13	2006	organization	for Health and	mentioned	patients' values,	version of	patients,	formulation of
14 15			Clinical		preferences,	CPG; written	patients'	recommendations, review
16 17			Excellence (NICE)		knowledge and	consultation;	representatives,	of draft, development of
18 19					perspectives in CPG	participation	individual	products for patients/the
20 21					recommendations; to	in the CPG	citizens	public;
22 23					improve	working		dissemination/implementa
24 25 26					implementation	group		tion
20 27 28	Tunner	Published study;	Two large mental	Schizophrenia	To incorporate	Individual	Individual	Formulation of
29 30	2006	descriptive	health agencies in		patients' values,	interviews	patients	recommendations
31 32		study;	Philadelphia,		preferences,			
33 34		qualitative	Pennsylvania		knowledge and			
35 36					perspectives in CPG			
37 38					recommendations			
39 40								
41								
42 43								
44 45								
46 47				http://mc.m	nanuscriptcentral.com	/mdm		
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Baunmann	Report by	American College	Not	To incorporate	Unclear	Unclear	Unclear
2007	organization	of	mentioned	patients'			
		Chest Physicians		values, preferences,			
		(ACCP)		knowledge and			
				perspectives in CPG			
				recommendations			
Fervers	Report by	Fédération	Cancer	To incorporate	Focus groups;	Individual	Strategic decisions,
2007	organization	Nationale des		patients'	participation	patients,	knowledge synthesis,
		Centres de lutte		values, preferences,	in the CPG	patients'	formulation of
		contre le cancer		knowledge and	working	representatives,	recommendations,
				perspectives in CPG	group	representatives	development of a draft,
				recommendations		of patients'	final revision,
						group	development of products
							for patients/ the public;
							dissemination/implementa
							tion
Hoes	Published study;	European League	Rheumatic	Not mentioned	Delphi	Individual	Knowledge synthesis,
2007	review of	Against	diseases		process;	patients	formulation of
			http://mc.r	nanuscriptcentral.com	n/mdm		

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1 2								
2 3 4		literature;	Rheumatism			literature		recommendations
4 5 6 7		qualitative	(EULAR)			review;		
7 8 9						generate and		
10						validate		
11 12						recommend-		
13 14 15						dations		
16 17								
18	Kelson	Report by	American	Chronic	To incorporate	Workshops;	Individual	Strategic decisions,
19 20	2007	organization	Thoracic Society	obstructive	patients'	focus	patients,	knowledge synthesis,
21 22			and European	pulmonary	values, preferences,	groups;	patients'	formulation of
23 24			Respiratory	disease	knowledge and	interviews;	representatives,	recommendations, review
25 26 27			Society		perspectives in CPG	consultation	representatives	of draft
28					recommendations;	on guideline	of patients'	
29 30 31					to improve	products;	group,	
32 33					implementation	participation	individual	
34 35					-	in the CPG	citizens,	
36 37						working	community	
38 39						group,	organizations	
40							organizations	
41 42						separate		
43 44								
45				h.44 11		las due		
46 47				nttp://mc.r	manuscriptcentral.com	/mam		

					consumer		
					panels		
)							
NICE	Report by	National Institute	Not	To incorporate	Participation	Individual	Knowledge synthesis,
2007	organization	for Health and	mentioned	patients'	in the	patients,	formulation of
)) ,		Clinical		values, preferences,	CPG working	patients'	recommendations, review
;)		Excellence (NICE)		knowledge and	group	representatives	of draft
)				perspectives in CPG			
2				recommendations			
Yardley	Published study;	ProFaNE	Falls	To foster patients'	Surveys of	Individual	Formulate evidence-based
2007	descriptive	Thematic Network		adherence with	older people's	citizens	recommendations
,))	study;			recommendations	views on falls		
2	qualitative				prevention		
Zuckerbrot	Published study;	Center for the	Adolescent	To understand the	Focus groups	Individual	Formulation of
2007	descriptive	Advancement of	depression	problems and		patients,	recommendations
	study;	Children's Mental		obstacles faced by		patients'	
	qualitative	Health at		primary care		representatives	
) ,			http://mc.r	nanuscriptcentral.com	n/mdm		

1 2								
3 4			Columbia		clinicians regarding			
5 6			University		the management of			
7 8					adolescent			
9 10					depression			
11 12	Domus Medica	Report by	Domus Medica	Chronic	Not mentioned	Focus group;	Individual	Knowledge synthesis
13 14	2008	organization		illnesses,		participation	patients,	
15 16 17				diabetes,		in the	representatives	
17 18 19				depression		CPG working	of patients'	
20 21						group and	group	
22 23						consensus		
24 25 26						conference		
27	Harbour	Report by	Scottish	Not	To incorporate	Written	Individual	Strategic decisions,
28 29 30	2008	organization	Intercollegiate	mentioned	patients'	consultation;	patients,	knowledge synthesis,
31 32			Guidelines		values, preferences,	public	patients'	development of a draft,
33 34			Network (SIGN)		knowledge and	meetings;	representatives,	review of the draft,
35 36					perspectives in CPG	public polls or	representatives	development of products
37 38					recommendations	surveys;	of citizens'	for patients/the public,
39 40						focus groups;	group	dissemination/
41 42								
43 44								
45 46				http://mc.r	nanuscriptcentral.con	n/mdm		

					participation		implementation
					in the CPG		
					working		
					group		
Harris	Report by	Health for Kids in	Children's	Not mentioned	Participation	Patients'	Strategic decisions,
2008	organization	the South East	health		in the	representatives	knowledge synthesis,
		(HFK)	(asthma,		CPG working		formulation of
			croup,		group		recommendations,
			gastroenteritis				development of products
			, bronchiolitis,				for patients/the public
			diarrhea)				
Kelly	Published study;	ORYGEN	Deliberate	To incorporate	Delphi	Individual	Development of a draft
2008	delphi study;	Research Centre	non-suicidal	patients' values,	process	patients,	
(a)	qualitative		self-injury	preferences,		patients'	
				knowledge and		representatives	
				perspectives in CPG			
				recommendations			
			http://mc.m	nanuscriptcentral.com	/mdm		

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Kelly	Published study;	ORYGEN	Suicidal	To incorporate	Delphi	Individual	Development of a draft
2008	delphi study;	Research Centre	behaviour	patients' values,	process	patients,	
(b)	qualitative			preferences,		patients'	
				knowledge and		representatives	
				perspectives in CPG			
				recommendations			
Konety	Published study;	Iowa Prostate	Prostate	Not mentioned	Attending a 1-	Patients'	Knowledge synthesis,
2008	descriptive	Cancer Consensus	cancer		day	representatives	formulation of CPGs
	study;	Project			conference;		
	qualitative				evaluating the		
					available		
					literature		

Kotzeva	Report by	Catalan Agency	Stroke	Incorporate patients'	Focus groups;	Individual	Strategic decisions,
2008	organization	for Health	prevention	values, preferences,	individual	patients,	knowledge synthesis,
		Technology	and treatment	knowledge and	interviews	patients'	development of a draft,
		Assessment and	of obesity in	perspectives in CPG		representatives,	draft review,
		Research	children and	recommendations		representatives	development of products
		(CAHTA)	adolescents,			of citizens'	for patients/the public,
			tuberculosis,			group	dissemination/implementa
			safety of the				tion
			surgical				
			patient,				
			dementias,				
			eating				
			disorders,				
			schizophrenia,				
			osteoporosis,				
			bronchiolitis				
			of the nursing				
			infant,				
			http://mc.n	nanuscriptcentral.com	n/mdm		

1 2								
3 4				hyperactivity				
5 6				and attention				
7 8				deficit				
9 10				syndrome,				
11 12				pathological				
13 14				gambling,				
15 16				behavioural				
17 18				addictions,				
19 20								
21 22				borderline				
23 24				personality				
25 26				disorders				
27 28	Love	Published study;	South Africa food-	Nutrition	To foster patients'	Focus groups;	Individual	Dissemination/
29 30	2008	descriptive	based dietary		adherence to	individual	citizens	implementation
31 32		study; mixed	guidelines		recommendations	interviews		
33 34			(FBDGs) work					
35 36			group					
37 38	Murray	Published study;	South Africa food-	Pediatric diet	To increase the	Focus groups	Mothers with	Review of draft
39 40	2008	descriptive	based dietary		general public's		infants younger	
41 42								
43 44								
45 46				http://mc.m	anuscriptcentral.com	n/mdm		
47 48								

2								
2 3 4		study;	guidelines		understanding of		than 6 months	
5 6		qualitative	(FBDGs) work		CPGs			
7 8			group					
9 10	SIGN	Report by	Scottish	Not	To incorporate	Participation	Individual	Strategic decisions,
11 12 13	2008	organization	Intercollegiate	mentioned	patient's	in the	patients,	knowledge synthesis,
14 15			Guidelines		values, preferences,	CPG working	representatives	formulation of
16 17			Network (SIGN)		knowledge and	group	of patients,	recommendations,
18 19					perspectives in CPG		individual	development of a draft,
20 21					recommendations		citizens	final revision,
22 23								development of products
24 25 26								for patients/the public,
20 27 28								dissemination/implementa
29 30								tion
31 32	Southern Health	Report by	Southern Health	Children's	To incorporate	Public	Patients'	Strategic decisions,
33 34	2008	organization		health	patient's	meetings;	representatives	formulation of
35 36					values, preferences,	public polls or		recommendations
37 38 39					knowledge and	surveys;		
39 40 41					perspectives in CPG	focus groups;		
42 43								
44 45								
46 47				http://mc.	manuscriptcentral.com	n/mdm		
48 49								

			recommendations	participation		
				in the		
				CPG working		
				group		
Report by	National Institute	Mental health,	To evaluate lay	Public polls or	Individual	Evaluation of
organization	for Health and	maternity,	members'	surveys	patients,	participants'
	Clinical	chronic and	experiences of being		patients'	experience of being part
	Excellence (NICE)	acute	part of a CPG		representatives	of the development of the
		conditions	development group			CPG
Report by	World Health	Not	To incorporate	Participation	Individual	Strategic decisions,
organization	Organization	mentioned	patient's	in the	patients	formulation of
			values, preferences,	CPG working		recommendations,
			knowledge and	group		review of draft,
			perspectives in CPG			dissemination/
			recommendations			implementation
		Luce Hara		<i>,</i> ,		
	organization Report by	organization for Health and Clinical Excellence (NICE) Report by World Health	organization for Health and maternity, Clinical chronic and Excellence (NICE) acute conditions Report by World Health Not organization Organization mentioned	Report byNational InstituteMental health,To evaluate layorganizationfor Health andmaternity,members'Clinicalchronic andexperiences of beingExcellence (NICE)acutepart of a CPGconditionsdevelopment groupReport byWorld HealthNotTo incorporateorganizationOrganizationmentionedpatient'svalues, preferences,knowledge andperspectives in CPGrecommendationsrecommendations	in the CPG working group Report by National Institute Mental health, To evaluate lay Public polls or organization for Health and maternity, members' surveys Clinical chronic and experiences of being Excellence (NICE) acute part of a CPG Excellence (NICE) acute part of a CPG Report by World Health Not To incorporate Participation organization Organization mentioned patient's in the values, preferences, for group knowledge and group	in the in the CPG working group Report by National Institute Mental health, To evaluate lay Public polls or Individual organization for Health and maternity, members' surveys patients, Clinical chronic and experiences of being Excellence (NICE) acute part of a CPG conditions development group Report by World Health Not To incorporate Participation Individual in the patients values, preferences, CPG working knowledge and group perspectives in CPG

NZGG 2009	Report by organization	New Zealand Guidelines Group	Not mentioned	To encourage greater involvement by	Participation in the	Individual patients,	Unclear
2009	organization	Inc. (NZGG)	mentioned	consumers of health	CPG working	patients'	
				and disability	group	representatives	
				services in the			
				activities of NZGG			
				and to ensure a			
				consumer-centered			
				approach to the			
				development and			
				implementation of			
				NZGG guidelines			
Graham	Report by	Scottish	Cancer,	To incorporate	Focus groups;	Individual	Strategic decisions,
	organization	Intercollegiate	bronchiolitis	patient's	participation	patients,	knowledge synthesis,
		Guidelines	in children,	values, preferences,	in the CPG	patients'	formulation of
		Network (SIGN)	peripheral	knowledge and	working	representatives	recommendations, review
			arterial	perspectives in CPG	group		of draft, development of
			disease,	recommendations			products for patients/the
			http://mc.r	nanuscriptcentral.com	/mdm		

1 2								
3 4				epilepsy in				public
5 6				children,				
7 8				autism				
9 10				spectrum				
11 12				disorders,				
13 14				dementia,				
15 16								
17 18				coronary heart				
19 20				disease,				
21				chronic hearth				
22 23				failure				
24 25	Sänger (a)	Report by	German Agency	Not	To incorporate	Patient	Individual	Knowledge synthesis,
26 27		organization	for Quality in	mentioned	patient's	version of	patients,	formulation of
28 29			Medicine		values, preferences,	guideline;	representatives	recommendations;
30 31					knowledge and	participation	of patients'	development of the draft,
32 33					perspectives in CPG	in CPG	group	review the draft,
34 35							group	
36 37					recommendations	working		development of products
38 39						group		for patients/ the public;
40 41								dissemination/implementa
42 43								
44 45								
46 47				http://mc.n	nanuscriptcentral.com	/mdm		
48								

							tion
Sänger (b)	Report by	German Agency	Not	To establish a	Establishment	Unclear: The	Development of
	organization	for Quality in	mentioned	program	of an Internet	German Patient	products for patients/ the
		Medicine		whereby laypeople	network for	Forum	public
				can evaluate and	critical		
				improve health	appraisal		
				information posted			
				online			
oroblem.							
	-						-
invites org	ganizations that mi	ght be interested but h	nave not been in	volved with NICE befo	re. NICE asks the	em to submit nomi	inations to the CPG develop
invites org group. Thi	ganizations that mi	ght be interested but h hed on the NICE web	nave not been in	volved with NICE befo	re. NICE asks the	em to submit nomi	inations to the CPG develop
invites org group. Thi	ganizations that mi	ght be interested but h	nave not been in	volved with NICE befo	re. NICE asks the	em to submit nomi	v topics relevant to them. It a inations to the CPG develop ed, the national collaborating

Medical Decision Making

*** NICE's Patient and Public Involvement Programme (PPIP) supports the application process for patient and caregiver members of the CPG development group. Patients, caregiver and members of the public can apply by responding to ads posted on the NICE website. The PPIP alerts all registered patient and caregiver stakeholder organizations to these ads. Applicants do not need to be members of a registered stakeholder organization to apply. ****SIGN recruits a minimum of 2 patients' representatives per CPG development groups by inviting nominations from the relevant umbrella organization, national organization, and/or local patient-focused organizations in Scotland. Where organizations are unable to nominate, patients' representatives are sought through other means, e.g., consultations with health boards or public involvement staff. Prior direct patient or caregiver consultation mechanisms (e.g., a focus group) may also furnish participants

CPG=clinical practice guideline; PPIP=patient and public involvement program; USA=United States of America

Table 2. Barriers to patient and public involvement programs

Barriers	Organizations' reports (n)	Empirical	Excerpts
(total frequency)		studies (n)	
Discrepancies between experts' and	28, 55, 57, 63, 65, 66, 91	38	- Main topics form patients' point of view differed
patients'/the public's perspectives	(n=6)	(n=2)	from topics in the guideline ⁶⁶
n=8)			- There may not be shared agreement about the mos
			important issues 91
			- Experience versus evidence ⁵⁵
			- Difficulty of integrating patients' views into
			professionals' recommendations ⁶⁶
			- An evidence-biased atmosphere ⁶⁵
			- Difficult for the patient to judge whether his/her
			comment regarding "evidence-based" information
			was relevant ²⁸
			- Apparent marginalization of the evidence from
			patients' and caregivers' experiences (insufficient

$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\end{array} $	Recruitment difficulties (n=7)	27, 28, 39, 47, 66, 67 (n=6)		 worth afforded to published qualitative studies) ⁶³ Patients and health professionals can weigh healthcare issues differently ⁵⁷ Hard to find/recruit patients capable of and interested in participating ⁶⁶ Difficulty of identifying patients and caregivers who are willing and able to contribute directly to guideline development ³⁹ Lack of a suitable consumer group ⁶⁷ Caregivers were difficult to recruit for this study and, after the first round of the questionnaire, only one remained involved ³⁷
30 31 32	Representativity of patients/the	52, 65 28, 39, 55, 66		- "As one person with a large group of medical people
32 33 34	public	(n=6)		() I felt the weight of being the only person
34 35 36 37 38 39 40	(n=6)			 specifically representing consumers" ⁵² A small number of patients does not guarantee representativity in terms of sex, ages, social
41 42 43 44 45 46 47 48		http://mc.man	uscriptcentral.com/n	ndm

Lack of familiarity with complex

scientific and medical language

material difficult to understand)

Significant work commitment (n=3) ^{28, 33, 52} (n=3)

(patients/the public found the

(n=5)

background, stage disease, etc. ²⁸

- Patient advocates may be perceived as particularly unrepresentative ³⁹
- Variability of patients' values and preferences at different stages of the disease, at different levels of the disease's severity, and with respect to different issues. Values and preferences may also differ by age, sex, socioeconomic status, ethnicity and culture. This poses a challenge to integrating consumers' values into guideline recommendations ³⁹
 Technicality and complexity of the subject does not encourage patients' participation ²⁸
 It was not possible to meaningfully discuss any of the scientific content of the guideline ⁸⁵

- Very hard work and exhausting ⁵²

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(n=1)

		- Duration of project ²⁸
Time constraints (n=3)	52, 65, 67	- Training is not practical for consumers with other
	(n=3)	employment responsibilities-they would have to
		take time off work without pay ⁵²
		- No time 65
Professionals' resistance to	^{39, 57} (n=2)	- Professionals' resistance to patient membership ³⁹
patients' participation (n=2)		
Feeling isolated (n=2)	^{47, 52} (n=2)	- Consumers can feel isolated and uneasy at guideline
		meetings ⁴⁷
Financial issues (n=1)	⁶⁵ (n=1)	- No money ⁶⁵
Resource-intensive (n=1)	³⁹ (n=1)	- Patient involvement can be resource-intensive ³⁹
Feeling little affected by the	²⁸ (n=1)	- Feeling little affected by the problem ²⁸
problem (n=1)		
Patients' contributions are	³⁹ (n=1)	- Patients' contributions are sometimes limited ³⁹
sometimes limited (n=1)		
Patients underestimate their	²⁷ (n=1)	- Patients underestimate their capabilities ²⁷
capabilities (n=1)		

Large documents sent by email - not practical for consumers (too expensive to print at home) (n=1)	⁵² (n=1)	 Sending large documents by email as an alternat to face-to-face meetings makes it difficult to negotiate and reach consensus ⁵²
	http://mc.man	uscriptcentral.com/mdm

Facilitators	Organizations' reports (n)	Empirical	Excerpts
(total frequency)		studies (n)	
raining (n=14)	28, 30, 33, 36, 39, 50-53, 60, 63, 65-67		- Training in technical aspects of the guidelines ⁵²
	(n=14)		- Training day ^{50 30}
			- Training seminars ³⁰
			- Critical appraisal training and seminars ^{60 33}
			- SIGN ensure opportunities to attend training events
			33
upport (n=12)	27, 28, 30, 33, 36, 39, 50, 53, 60, 63, 65	⁸⁵ (n=1)	- Telephone support ²⁸
	(n=11)		- Telephone and email support ^{33 30}
 Supporting staff 	33, 47, 50, 53, 55, 63, 65, 66 (n=7)		- Select a supportive chair to lead the guideline group
(mainly chair of the			55
guideline development			- Availability of a mentor/coach ^{55, 66}
group)			- Chair of each guideline development group is asked
(n=7)			to support patient representatives by ensuring they
			are fully engaged with the group, addressing the

Help with complex ^{36, 52, 53, 65, 91}
 scientific and technical (n=5)
 issues (to increase
 participants'
 understanding)
 (n=5)

group if their contributions are not acknowledged appropriately, and welcoming and encouraging their contributions ³³

- Mentoring ⁵³
- Need to take special care to ensure that consumers have a voice at meetings and to feed back to constituencies ⁴⁷
- Provide extra assistance, explanations and background information, particularly if the matter under consideration is technical ⁹¹
- More time on practical statistics would have been helpful ⁵²
- Explain evidence-based process ⁶⁵
- Develop competencies in the design and development of information for consumers, including the use of plain language for all consumeroriented documents and, where possible, the use of

Medical Decision Making

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0	Supporting	28, 50, 53, 55, 66	-	Clear analysis grid for knowledge synthesis ²⁸
	documents/material	(n=5)	-	NICE's "welcome pack" for selected patients ⁵
	(n=5)		-	Templates and processes for the preparation of
				evidence-based consumer information 53
0	Contact and	28, 52, 60	-	They can explain and listen ²⁸
	interactions with other	(n=3)	-	They can offer one-off or ongoing support 60
	consumers			
	(n=3)			
0	Support from	⁵³ (n=1)	To-	Work collaboratively with other organizations
	organizations			develop strong partnerships with government a
	(n=1)			nongovernment organizations, and agencies
				supportive of initiatives to strengthen consume
				voice ⁵³
Clear expe	ectations (details about	33, 36, 50-52, 55, 91 65, 66	-	Disclose the funds available for the service or
the proces	s, who is involved, roles,	(n=9)		under discussion ⁹¹
etc.) (n=9)			-	Information about the time frame and expected

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commitment 52

- Why the patient is invited, who s/he represents, what is expected - tasks and level of participation whether time and costs are reimbursed 66
- Ensure that everyone recruited to the guideline development group is fully aware of the scope of the guideline and agrees to work within it ³⁶
- Well-defined goal ⁶⁵
- s. Well-det A m A member of the patient and public involvement program contacts patients and caregivers to give them background information about what they might expect at the first meeting 50
 - The NICE PPIP gives a short presentation to all members, at the first meeting, on the role of patient and caregiver members ⁵¹
 - SIGN provides clear guidance on patients' roles and responsibilities within the group ³³

More t	han one patient	^{41, 47, 51-53, 55, 65, 67} (n=8)	-	Need to involve more than one consumer ⁴⁷
(n=8)			-	Recruitment of a minimum of 2 representatives,
				following a transparent selection process and a well-
				established protocol ⁴¹
0	Representation of different	^{47, 55, 65} (n=3)	-	Participants should be as representative as possible
	patients' perspectives			of the whole population ⁶⁵
	(n=3)			
0	Gender representation and	⁶⁷ (n=1)	-	Gender representation and balance should be
	balance (n=1)			considered in selecting group members 67

Development group committed to	52, 63, 65, 66	-	Sensitivity of other group members to consumers'
and in favor of patient involvement	(n=4)		non-professional status (recognition that consumers
(n=4)			should feel that they are listened to and that their
			opinions are valued) ⁵²
		-	A belief, especially on the part of the chair and
			opinion leaders, that it works ⁶⁵
		-	Members of the guideline development group –
			mainly medical doctors - put the professionals and
			the laypeople on an equal footing ⁶³
		5	The health professionals in the group seemed open to
			the view that consumers can contribute a valid and
			valuable perspective ⁵²
Good preparation	^{28, 39, 41, 65} (n=4)	-	Working group meetings preceded by preparatory
(n=4)			meetings and training ²⁸
Reimbursement/sufficient financial	52, 60, 65, 91	-	Ensure there is sufficient funding to pay consumers
assistance (n=4)	(n=4)		and to cover additional expenses, such as child care
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and transportation 91

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		-	Cover certain expenses (transportation, childcare,
			loss of earnings) 60
Keeping patients/the public	52, 65, 91	-	Email is a good way to keep in touch and keep up-
informed and maintaining dialogue	(n=3)		to-date on progress ⁵²
(n=3)		-	Organization gives feedback and information and
			acknowledges results 52
Involving patients from the start	55, 65, 67	-	Participation from (before) the start ^{55, 65}
(n=3)	(n=3)	-	Consumer involvement should be considered and
			encouraged from the start ⁶⁷
Past experiences	⁵² (n=1)	-	Past experience with other groups helps ⁵²
(n=1)			
Smaller subgroups	⁵² (n=1)	-	Smaller subgroups definitely helped progress ⁵²
(n=1)			
Sense of belonging (n=1)	²⁸ (n=1)	-	Sense of belonging ²⁸
Actively involving patients at every	⁶⁶ (n=1)	-	Actively involving patients at every stage of the
stage of the process and at patients'			process and at patients' desired level of involvement

desired level of involvement (n=1) Combining methods of involving ⁶⁶ (n=1) patients (n=1) Atmosphere of mutual respect and ⁶³ (n=1) positive working relationships with other members of the group (n=1) Notes: NICE = National Institute for Health and Clinical Excellence; SIGN = Scottish	 Combining methods of involving patients ⁶⁶ Leads to constructive debate and agreement ⁶³ Sh Intercollegiate <i>Guidelines</i> Network
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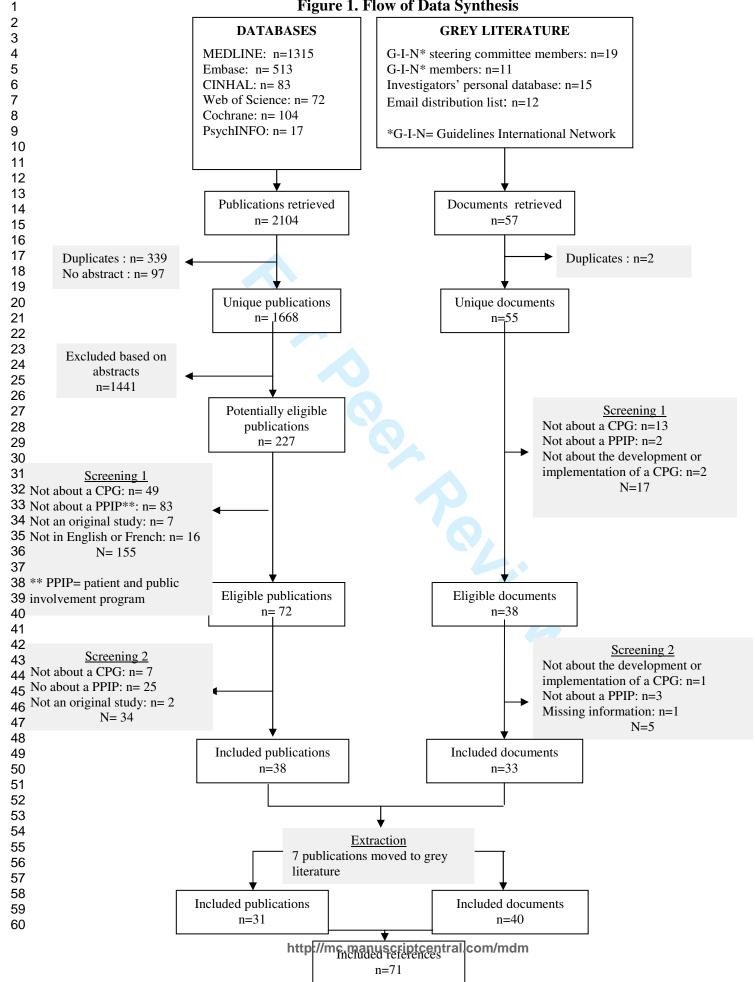


Figure 1. Flow of Data Synthesis