



**Facilitating and inhibiting factors for long term involvement of patients in outcome conferences - Lessons learned from a decade of collaboration in OMERACT.**

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**Facilitating and inhibiting factors for long term involvement of patients in outcome conferences - Lessons learned from a decade of collaboration in OMERACT.**

**Abstract**

**Objective:** Several studies have provided insights into conditions for successful patient involvement in health research. Recently we have showed that long term engagement with people with arthritis in international outcome research has made a significant change in the research agenda in the field of rheumatology. In this article we explore facilitating and inhibiting factors for long term involvement of patients as collaborative partners during 5 Outcome Measures in Rheumatology (OMERACT) conferences.

**Design:** A responsive evaluation, starting with a thematic document analysis of conference proceedings and grey literature, followed by 32 qualitative interviews. Interview transcripts were subjected to an inductive content analysis.

**Setting:** Five international OMERACT conferences between 2002-2012.

**Participants:** Patient delegates (n=16) and professional delegates representing researchers (n=14), pharmaceutical industry and regulators (n=2).

**Results:** Combined review of the document analysis and interview data revealed 5 main facilitators and 3 main barriers. Engagement of patients as full participants at OMERACT was enhanced by: strong commitment of the leadership and the presence of change agents; a clear selection procedure; an inclusive consensus based conference design; individualized and self organized support; an interactive and encouraging moderation style during discussion groups. Barriers were related to the intensity of the conference program, scepticism among researchers and doubts about the representativeness of the patient group.

**Conclusions:** This study concludes that developing a sustainable structure of funding, selection and support of patient delegates, and adjusting conference design and moderation

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3 style, enable a direct dialogue between all stakeholders and enhance mutual understanding  
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5 and a successful inclusion of the patient perspective in an outcome conference such as  
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**Article Summary**

**Article focus**

- The bi-annual conference on Outcome Measures in Rheumatology (OMERACT) has extensive experiences with structural involvement of patients as collaborating partners in outcome research.
- Through a systematic document analysis and 38 qualitative interviews with all stakeholders we explore the facilitators and barriers of long term participation of patients in outcome research.

**Key messages**

- Making patient participation an integral part of the vision, structure and program of the conference enables an effective and efficient inclusion of the patient perspective.
- Adequate introduction and personalized training and support of patients are important conditions for a successful engagement with patients.
- The role of moderators in small group discussions is pivotal for enabling patients to contribute to research and to foster mutual learning processes of all participants.

**Strengths and limitations of this study**

- OMERACT has provided a unique opportunity to evaluate the conditions of long term involvement of patients as conference partners in a highly scientific environment.
- Generalizability and transferability of the result findings to conferences on national and local level and to other disciplines is limited and require additional research.

## Keywords

patient participation; OMERACT; outcome research; qualitative research; research conference; responsive evaluation; rheumatology; user involvement

## CONTRIBUTORSHIP

MW, JK and TA conceived the idea of the study and were responsible for the design of the study. MW carried out the document analysis and all interviews. MW and MK were responsible for the coding of the interview transcripts. All authors provided input into the phase of cross-code checking and data analysis. The initial draft of the manuscript was prepared by MW and then circulated repeatedly among all authors for critical revision. All authors read and approved the final manuscript.

The last decade has seen an increased involvement of patients in health research based on a widespread transition towards empowered health consumers and acknowledgement of the right to influence research that will affect their daily life. Patients aspire to more horizontal and deliberative partnerships with researchers resulting in a variety of patient roles.<sup>1-4</sup> Patients can be committee members, reviewers of protocols or grant applications, advisors, panel members or commissioners of research. Each patient role implies different tasks and different kinds of contributions, and can be performed at different levels of involvement.<sup>5 6</sup> Most case studies observe a power shift between patients and researchers. Because there is still little evidence about the effectiveness of these new patient roles, participative research still needs to be justified.<sup>7</sup>

A new role in health research is that of the patient as conference partner. In this new role patients do not participate as patient advocates or representatives of a patient organisation. Nor do they attend a conference for networking or for learning about new developments regarding their condition. Rather, they are invited to collaborate with researchers as equal partners with the purpose to provide the patient perspective. This is the case for the Outcome Measures in Rheumatology conferences called OMERACT. Here patients have been successful in changing the research agenda, contributing to the development of core outcome sets and helping to devise new measurement instruments.<sup>8</sup> To our knowledge there is no literature that explores the tasks, contributions and challenges of patients as collaborating partners at scientific conferences. However, we do know more about patient research partners, a role that shows similarities with that of patients as conference partners. The term patient research partner has been coined in the context of rheumatology<sup>9</sup> and can be defined as “persons with a relevant disease who operate as active research team members on an equal basis with professional researchers, adding the benefit of their experiential knowledge to any phase of the project”.<sup>10</sup> Patient research partners have actively contributed to the development

of research agenda's for people with spinal cord injuries,<sup>11</sup> intellectual disabilities,<sup>12</sup> and chronic kidney diseases.<sup>13</sup> Patient research partners can also be involved in developing research designs, collecting data, and the development of patient reported outcomes.<sup>14</sup> At the department for rheumatology of the University of Bristol patient research partners have contributed to the study of fatigue.<sup>15</sup> On an international level they were involved in the study of flares in rheumatoid arthritis (RA)<sup>16</sup> and in the development of a new patient derived quality of life measure for RA.<sup>17</sup>

Although there is some evidence that active involvement of patient research partners brings several benefits to research<sup>18</sup> there is little information about the conditions for their effective involvement at research conferences. OMERACT is the first series of international research conferences that has successfully engaged with patients as collaborating partners over a substantial period of time.<sup>19</sup> However, it is unknown what factors have been supportive to this success, how the organization, structure and procedures have facilitated patients to contribute effectively, or how reported barriers have been removed. The objective of the present study is to describe how OMERACT has organized structural collaboration with patients in its conferences over the last decade and which factors have been supportive or inhibiting to this process. Furthermore we analyze how this process has changed perceptions and beliefs of OMERACT delegates regarding patient involvement.

### **The context: OMERACT**

OMERACT started in 1992 to achieve consensus on a core set of outcome measures for clinical trials in rheumatoid arthritis. Based on the success of the first conference, it developed into a worldwide, data driven working conference known for its interactive conference design and high scientific rigor. It brings together a large variety of professionals with an interest in the methodology of clinical trials in the field of rheumatology. The objective is to build

consensus regarding core outcome sets and appropriate measurement instruments for clinical trials. At OMERACT 10 (2010) 172 persons participated, 152 professionals and 20 partners. Since 2002 OMERACT has invited patients as full conference participants based on the belief that outcomes for clinical trials need to be derived from “the lived experience of arthritis” and from “concepts which can be readily communicated to patients to help with therapeutic decision making”.<sup>20</sup> During the period 2002-2012 58 patients in total have taken on this role.

An initial qualitative study explored the expectations and experiences of patients who participated in OMERACT for the first time.<sup>21</sup> They reported barriers to full collaboration with professionals. These were, among others, related to the preparation, moderation style of professionals and lack of individual support onsite. They believed that they did not contribute significantly to the breakouts and that their experiential knowledge was not optimally used. Nevertheless they believed that their involvement had been valuable and meaningful. They confirmed personal learning curves and felt their contribution would be more effective at the next conference.

In a second qualitative study, including the opinions of all stakeholders in OMERACT, researchers confirmed that the involvement of new as well as experienced patients had been successful and had significantly influenced the conference outcomes.<sup>8</sup> Patients had enriched the research agenda with new topics such as well-being, flares, sleep disturbances and, most illustrative of all, fatigue. A substantial amount of work in the area of fatigue in rheumatoid arthritis has been published<sup>22 23</sup> and OMERACT participants have almost unanimously confirmed that this research would not have been vigorously carried out or even identified without the presence of patients at the conferences.

## Challenges



In this study we will address some of the challenges that we know from earlier studies that have looked at the role of patients as research partners. One of the most important challenges is the fact that anecdotal or lay knowledge is not accepted as a valid source for scientific research. It is often perceived as inferior compared to the evidence based knowledge of professionals.<sup>24</sup> Therefore patients find it hard to create a basis for trust and equal collaborative relationships.<sup>25 26</sup> Caron-Flinterman studied 23 cases of active patient involvement in biomedical research and argued that the deliberate use of experiential knowledge of patients needs additional research.<sup>27</sup> Recent studies have demonstrated that starting with dialogue and deliberation among patients in collaboration with patient research partners is an effective way to strengthen their voice and develop a shared knowledge base grounded in the experiential knowledge of individuals.<sup>18 26</sup> However, further understanding of the nature and significance of lay knowledge is still necessary.

A second challenge is that some researchers are reluctant to engage with patients or involve patients as a kind of tokenism.<sup>28</sup> They have difficulties adjusting their language and communication style, perpetuating an important barrier for collaboration. Elberse studied the effectiveness of inclusion strategies to incorporate patients' perspectives in the development of a research agenda for people with congenital heart disease.<sup>29</sup> This study concluded that verbal communication is an important inhibiting factor and additional inclusion strategies are needed to realize an effective partnership between patients and professionals.

A last recurring challenge is the lack of knowledge required to implement structural involvement of patient research partners.<sup>6</sup> The evidence base underpinning the assessment of effective conditions for patient involvement is relatively weak, primarily because of poor documentation, analysis and reporting.

## Method

*Data-collection*

Data collection was based on a document analysis and 38 interviews with representatives of all stakeholders involved in OMERACT. The thematic document analysis included OMERACT conference proceedings and grey literature such as OMERACT policy documents, correspondence, invitations, session reports and e-mails. The document review focused on the objectives and structure of the conference, number of patient delegates, their selection, preparation and support, and the rheumatic conditions and countries represented. We were particularly interested in the explanation and arguments given for the way OMERACT created, changed or improved operational procedures and the way participants accepted or adjusted these.

After this document review the first author started a responsive evaluation<sup>30</sup> by conducting qualitative interviews with representatives of all stakeholders before, during and within four weeks after the conference in 2010. Finally the opinions and experiences of 16 professionals and 16 patients were collected (table 1). Of the 8 patient delegates that attended OMERACT for the first time 3 were interviewed on 3 different occasions during the five-day conference. This was done to obtain accurate insights into occurring changes in expectations, experiences and contributions.

All interviews were recorded, transcribed by an independent secretariat and subjected to a responder check. The average duration of the interviews was 52 minutes. The interview protocols differed for professionals, new patients and experienced patients. The topics dealt with the expected role of patient participants, their selection, preparation and support, and their experiences in discussion groups, in particular those belonging to the workshops on remission and flares. All participants gave their informed consent prior to the interview. For this study no ethical approval of the MEC was needed.

### *Selection of interviewees*

Selection of interviewees aimed at maximum variation and followed an emergent purposive sampling approach, based on stakeholder's background, opinion about patient involvement, gender, geographical spread and number of OMERACT conferences attended. The selection strategy took into account the limitations inherent in a five-day worldwide conference. Potential candidates for face-to-face interviews should be willing to dedicate some of their time for the interview during this conference. Directly after the conference preliminary analyses of the first interview data revealed an unexpected response shift. The attitude towards patient involvement of professionals that were presumed to provide a critical perspective, had significantly changed. Their scepticism had made place for a more positive assessment of collaboration and its benefits. For this reason we identified two new interviewees who were known for their critical perspective. Also the perspective of a research fellow and a post-doc researcher was missing and subsequently added to the list of interviewees. After analyzing the additional transcripts saturation was achieved.

[table 1]

*Data analysis* – Interview transcripts were subjected to an inductive thematic content analysis focusing on conditions and barriers for patient participants to contribute to the process. The analysis concentrated on those aspects of the actual conduct of the conference, the preparation and the breakout sessions that have a direct influence on the ability of patient delegates to contribute. The documents and the interview data were analyzed with the purpose of ascertaining what structural arrangements were provided by OMERACT that facilitated the integration of patient knowledge in the conference. All team members – representing different

perspectives and professional backgrounds - were involved in the abstraction process to distil relevant conditions for organizing structural involvement of patients.

*Quality procedures*

Triangulation took place by synthesizing interview data and results from the document analysis. To increase the relevance and quality of the analysis and interpretation of the data a patient who attended OMERACT 10 for the first time (SC) joined the research team. She was actively involved in the coding and analysis of the data, team meetings and writing this manuscript. To increase the inter-rater reliability of the coding an external expert in qualitative research (MK) who had never worked with conference partners before, participated in all phases of the study, starting from the phase of transcript coding. To protect the anonymity of the participants all quotes in this manuscripts are exposed in the “she”-form. Quotes of professionals are indicated by ‘R’ and those of conference partners (in short: ‘partners’) by ‘P’.

**Results**

During the combined review of the document analysis and the coding of the interview transcripts the research team grouped 1,563 open codes into 44 meaningful generic categories of which 29 were descriptors of facilitators and 15 descriptors of barriers. In a second review round, 8 main categories emerged that characterized the features of the conference that were supportive or inhibitory to the contributions made by partners. Finally the team defined the content of these categories and divided them into 5 main facilitators and 3 main barriers (Table 2). The 5 facilitators were the role of the leadership, selection procedure, conference design, moderation style and support. The 3 barriers were the intensity of the program,

scepticism among researchers and representativeness of the patient group. Each one is described below with examples from the data.

[Table 2]

## Facilitators

### *Leadership*

Long term commitment and support of opinion leaders is key to the success of new initiatives. The organizing committee of OMERACT was intrinsically motivated to foster patient engagement in the conference: “We believe their input is essential to decide on the right measurement tools”.<sup>31</sup> According to one of the members of the organizing committee the decision to invite patients was not taken lightly. It was discussed during several planning meetings and the group was daunted by the question “how to organize patient participation?”[RD]. When the decision was taken, the leadership was determined to do it properly. They gave full support to the patient perspective workgroup leader who took on the role of a change agent, and provided funds for patient partners to attend the conference. These costs were calculated for an amount over \$ 80,000 in 2012. They also acknowledged the repeated contributions made by partners: “Their dedication to the process is an example for us all” (ibid). Based on the positive experiences of two conferences attended by partners, in 2006 OMERACT formulated basic principles for patient engagement: “OMERACT policy on including the patient perspective in rheumatology outcomes assessment” [internal document]. This document represented a milestone by making patient participation part of the vision of OMERACT, embedded in a set of operational procedures. After three further conferences the

Executive Committee decided on the principle that active patient involvement would be a prerequisite for working groups suggesting themes in the OMERACT program.<sup>20</sup>

The leadership recognized the value of a mixed group of new and experienced partners and was committed to providing opportunities for experiments and long term learning. They confirmed that a learning curve is a requisite to becoming productive.

*Selection*

From the start it was clear that patient participants were not expected to represent any group or organization. Although partners might be active in patient organizations, they should adopt a strict individual role at OMERACT. Their contribution is valuable because of their personal experience: “a living knowledge of their long term conditions” and “the unpredictable nature of their illness” [internal report, 2008]. Their input is not related to advocacy for resources or attention to a particular disease. Recruitment is done through the clinic of participating physicians “to ensure that people were invited who could make a contribution in unfamiliar circumstances”.<sup>32</sup> In practice physicians proved to be ideally positioned to identify eligible patients because they were familiar with the patients and with the requirements of OMERACT.<sup>20</sup> Since 2004 OMERACT has aimed for 10% of patients with a mixture of conditions [online figure 1], geographical spread [online figure 2] and OMERACT experience [online figure 3].

Selection of partners is still an issue of concern, especially with regard to the dual relationship between the individual partner and their physician. Participants reported significant advantages with the current system: This personal relationship leads to a strong motivation to collaborate, makes researchers feel responsible for appropriate guidance and funding of the partners, and avoids the selection of patient advocates. Some respondents pointed out the risk that partners might not dare to speak openly about their opinions in the

presence of their treating physician. In one case a partner admitted that “pleasing” or “identification” with her own consultant had happened when she felt she had to defend the consultant’s point of view against criticism from other delegates that the patient perspective was insufficiently incorporated in the data the consultant had presented:

As the result of structural involvement, the relationship between partners and researchers has developed into an equal collaboration in many parts of the conference. Participants have tended to raise the level of required competencies: Partners are expected to speak up, provide the patient perspective, compartmentalize their clinical relationship<sup>9</sup> and carry out tasks like all other delegates. Most of the participants confirmed that partners must be able to understand basic principles of research, contribute to discussions and receive criticism.

### *Conference design*

OMERACT started as an informal gathering of researchers interested in outcome measurement in rheumatology<sup>33</sup> and evolved into a biannual five-day working conference with a multi-stakeholder approach. Participants confirmed that the small size of the conference, the attitude of the delegates and the spirit of OMERACT as an open and inclusive initiative have been beneficial for a positive reception of partners: “I think that most of the researchers and clinicians that go in here are rather open minded” [RB]. Partners felt welcome at the conference: “You do feel like you’re part of the family” [PH] and “OMERACT is probably the most patient inclusive meeting” [PI].

The conference layout and the strong focus on active interaction and debate in small groups, including pre- and post-workshop meetings, have been specifically arranged to serve the need to integrate a diversity of perspectives and to avoid the dominance of one single voice: “At times discussion on topics may be strongly influenced by key opinion leaders, but holding more meetings of smaller concurrent interest groups has partially remedied this



problem”.<sup>34</sup> The breakout discussions also “support the patient contributions in what might otherwise be a very professionally oriented forum” (ibid.).

Partners were officially invited to participate as full delegates with voting rights and access to all sessions, discussions and events. Some of the experienced partners felt equal to professionals and acted as co-researchers by co-moderating, reporting back or becoming co-author (Online table 1). A majority of the partners saw their role as giving information or advisor, sometimes even as an observer. In particular new partners regularly felt the same disparity towards professionals as is experienced in clinical practice. The interviews revealed that also new researchers and research fellows sometimes experienced this disparity.

*Moderation style*

The breakouts during OMERACT form the heart of the conference. Although the moderation is part of the conference procedure and has been described in separate guidelines [internal document], the quality of the moderation emerged as of utmost importance: A facilitator can help partners contribute to their full potential or degrade partners to unvoiced observers. From the perspective of partners a facilitative moderation style and creating an environment that fostered mutual learning through open dialogue, were seen as important conditions to empower partners to make their voices heard and to contribute fully to the objectives of the session. One of the partners described what made her feel confident to contribute:

“Just simple things, like at the start: we had something like a semi-circle [for the seats] rather than in rows. So we could all interact and see each other. Basic stuff like that. Especially for somebody like me with hearing disability it is important to see all the faces”. And the moderator “did thank everybody for coming, made us all feel welcome and stopped a couple of times through the session to say ‘what do the



patients think?’ We were all given the opportunity to speak, and weren’t cut off or being manipulated or something like that, it (...) all really felt equal.” (PC)

At times partners were confronted with an apparently patronizing attitude of a moderator or other delegate. Occasional comments such as “That is quite obvious” were experienced as disqualifying their competences or disease experience. As a result partners sometimes felt ignored, frustrated or unable to contribute. Also the language was a barrier for those whose first language is not English. This factor was underestimated and partners tended to hold back when they were afraid of not using the right words or expressions.

Good moderators used the dynamics of a dialogue to articulate partners’ opinions:

“Because one patient can say something which facts up the other patients in the room to say ‘yes, this is very important and I haven’t thought about it but now that’s been brought up: absolutely’. I’ve seen examples of that many times at OMERACT and you almost hear the penny drop, it was all of a sudden a big light bulb goes up and everyone says ‘yes, absolutely!’” (PH)

Moderators behaviours were sometimes considered unethical or poor approaches to sensitive issues. For example, at one occasion a discussion on a rare rheumatic disease caused distress for one of the partners affected by that disease when mortality rates were presented. The researcher mentioned in a rather dismissive way that this was not of importance in relation to the topic under discussion. The off-hand dismissal of the scientific importance of mortality in relation to the discussion topic could not easily be separated in the partner’s mind from a dismissal of the importance of mortality for

patients in general and her in particular. Table 3 offers an overview of strategies moderators have found useful in reducing partner reported barriers.

[Table 3]

*Support*

According to the organizers of OMERACT the first conference with patient involvement was actually the most easy and successful because no one involved had any expectations. Partners formed a homogeneous group and the program was not demanding. Despite the fact that support was limited and there was a minimum of organization, patients felt welcome and accepted.<sup>35</sup> During subsequent conferences partners were extremely motivated to learn the OMERACT way and started to organize themselves. They formed a patient liaison group that became responsible for communication between the patient group and the organizing committee. Experienced partners developed information modules to bring newcomers to a basic level of understanding of the scientific purpose of OMERACT. Where necessary they approached professionals for assistance.

In 2010 partners received a pre-conference pack containing information about the program, lay-summaries of the objectives of the workshops, and a participants list. New partners were matched with an experienced partner who took on the role of a buddy. After arrival at the conference partners gathered for their own dinner and had an introductory meeting. The second day, before the start of the official program, partners followed a half day training session moderated by the Chair of the liaison group. Workshop leaders provided disease-specific patient update sessions, prior to the workshops. To better understand the discussion topics important terms, questionnaires or issues were explained. Experienced OMERACT partners coordinated the production of a glossary<sup>36</sup> which has been so useful that

researchers as well as partners were supplied with a copy. Every conference the glossary is updated with input from the workshop leaders.

Nowadays it is the intention of OMERACT to optimize support by tailoring it to the individual needs and competencies of partners. To overcome the barrier of an exhausting program, the patient liaison group developed personalized programs that helped new partners to pace themselves by making informed decisions about which sessions they should attend as a minimum, and which sessions they should attend when their condition allowed. Other suggestions were related to the OMERACT pre-conference work. It is now expected that early participation in working groups will best prepare partners for participation at the conference.

## Barriers

### *Intensity of the program*

OMERACT is an overwhelming experience for all partners attending the conference for the first time.<sup>21</sup> An important barrier was the exhausting conference program. Physically challenging were: the (intercontinental) travelling and climate change; accessibility of the conference venue; early and late starting times of sessions; and the duration of the conference. New partners in particular often participated far beyond their physical capacities. They were not able to discriminate which sessions were most relevant and consequently tried to participate in all. Mentally challenging were: the use of medical or methodological jargon; uncertainty about the expected role and contributions; and dealing with hierarchical power relations and strongly opinionated professionals. A recurring difficulty was the invisibility of the importance of one's own provided contribution. In sessions dedicated to their own disease partners were more confident about their contributions than in sessions dealing with topics

that were more remote to them. The barriers experienced by new partners have been reported in detail in a previous study (ibid). Experienced partners coped better with the requirements of the conference and reported fewer barriers.

*Scepticism*

The notion of including patients as participants in OMERACT reached its tipping point at the final voting session at OMERACT 5 (2000). It was a kind of serendipity: Although the organizers had discussed the issue before, the proposal to invite patients at the next conference occurred spontaneously from the audience. A majority was indifferent and did not object to the notion as a principle of OMERACT.

Initially some respondents were not convinced of the added value of partners and attributed extrinsic motives to the leadership: promoting patient involvement for reasons of political correctness. Others did not believe that partners were able to think beyond their own condition or to understand the rigor of the methodological discussions. They perceived the unconditional endorsement as a kind of tokenism but did not object as long as it would not affect their own research; one respondent admitted not feeling confident to express politically incorrect opinions out of fear of disapproval by her colleagues.

After OMERACT 6, researchers slowly started to see and experience the benefits of patient involvement and changed their perceptions.

“At the start I was not optimistic and I saw several objections. First, patients don’t understand clinometric issues. Secondly, I did not see any potential contribution of patients. But I got convinced when they started to organize themselves, the glossary, the training modules... Patients proved to be good organizers to lift themselves to a higher level... Patients were professional and very motivated, which was different for other new

researchers entering OMERACT and not having much interest in the methodology of outcome research.” (RE)

In 2010 a few respondents still believed that the disadvantages did outweigh the benefits. They judged the influence of partners out of balance and feared less interest in solving methodology challenges and a negative impact on the variety of topics on the research agenda. They felt forced to engage with partners in areas of research where they hardly saw any added value, such as imaging and biomarkers. Most of the partners confirmed this opinion and thought that domains that are distant from their daily life were less likely to benefit from their input. They were in particular keen to contribute to areas of research such as work, remission, flares, doctor-patient communication, adherence and non-pharmacological interventions such as self-management. They believed that they could contribute to research focused on their own condition but were uncertain about providing meaningful input to other rheumatic conditions. To a great extent physicians agreed on this.

### *Composition of patient group*

Institutionalization of patient involvement gave rise to a debate regarding the representativeness of professionalized partners. The OMERACT policy welcomes partners to provide the ‘naïve’ dimension based on the assumption that what has been achieved in the past is the result of a balance between new and experienced partners [internal report; 2008]. However there has been a tendency to raise the selection criteria in order to recruit partners that are aware of the methodological issues at stake. Some respondents objected to the participation of partners who do not understand the rigor of scientific research, slow down the process and hence cause irritation during breakouts. They argued that partners should be selected according to stringent criteria such as an academic education and preferably a

professional background in medicine or health care: “It makes the conversation run more smoothly”. The patient perspective is important but should be obtained during the pre-conference research work.

Other participants emphasized the irreplaceable value of new partners for generating new ideas and a ‘real’ patient-oriented perspective. They reported potential risks of experienced partners becoming too professional, adapting their language, identifying themselves with researchers, and finally losing touch with their peers. And some respondents warned that partners who started acting as patient advocates might compromise the outcomes of OMERACT as a data-driven evidence based conference.

**Summary**

Through this empirical study we have obtained insights into the factors for successful collaboration between patients and professionals in a scientific conference. Building the involvement of patients as equal partners directly into the program is an effective way to incorporate the patient perspective in outcome research. The experienced benefits and the way it is organized, have changed the perception of researchers in favour of a structural integration of partners in all parts of the conference. Factors that stimulated this process were long term commitment of the leadership; selection of partners through participating physicians; and an inclusive conference design. A facilitative moderation style and the personalized support of partners were essential. Barriers were often the negativity of the facilitators and related to the intensity of the conference program, scepticism among researchers, and the competencies and representativeness of the patient group.

**Discussion**

OMERACT has provided a unique opportunity to evaluate the conditions of long term involvement of patients as conference partners in a highly scientific environment. Our evaluation showed that structural collaboration, fostered by a consensual leadership, is essential for successful engagement with partners and confirms the finding of a case study in the area of diabetes.<sup>37</sup> The current study has increased our knowledge and understanding of the challenges of structural involvement and might serve as an example for other conferences. Key opinion leaders could take a pro-active lead in this. Just by starting to invite patients and by providing adequate training and support, scepticism and resistance to change, elsewhere identified as important barriers for implementation,<sup>28</sup> transform into a supportive attitude. In our study we found that scepticism is often based on prejudices regarding the benefits and fear of tokenism. However, the evolution of engaging partners in OMERACT has been a process of empirical learning: Improving and adjusting inclusion strategies as the result of a continuous process of reflection. Participants lost their scepticism when partners started to organize themselves and when they saw their positive influence on the flow and content of the conference. Concerns that were expressed in the beginning, turned out not to be the case: Patients came with an open mind and without any agenda; they were able to transcend their own individual experiences and to understand the objectives of OMERACT. All these experiences convinced most of the participants that inviting patients is inevitable to address the ongoing challenge of developing outcomes that reflect the interests of people with arthritis.

Although the impact of patients at OMERACT has been substantial, it is difficult to summarize how the experiential knowledge of partners is actually utilized during the OMERACT breakout sessions. Researchers are not used to taking notes about the particular contributions made by partners, and journals do not expect authors to report on the input of partners. And when patient involvement is an integral part of the conference, it becomes



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almost impossible to distil individual contributions. Apart from this, there are hidden contributions: impact that is not noticed by the researcher nor the partner. And finally patients tend to underestimate the value of their own experience. More sophisticated methods are required to articulate and evaluate their experiential knowledge.

Some researchers in the field of rheumatology have started to describe how they have involved partners<sup>15 16</sup> which is necessary because patient involvement is not yet fully understood. Also OMERACT participants still believe that the patient expertise is not fully utilized and conditions to facilitate the contributions of partners are still suboptimal. A remaining challenge is the development of full involvement in all phases of OMERACT by engaging partners in the pre- and post-conference working groups, and by exploring categories and phases of research where patient involvement is expected to be most beneficial. Future research will enhance our body of knowledge of the feasibility and effectiveness of different strategies to include patients in conference sessions and of our understanding of the nature and significance of lay knowledge.

Another challenge that requires further research is the representativeness of patient research partners.<sup>14</sup> Partners have mostly been educated, white, middle class and socially skilled persons able to collaborate with professionals in a critical though constructive manner. Therefore important perspectives from other groups might be missed. Most professional participants believe that – despite the lack of representativeness - partners are an asset for the conference because of their personal contributions based on the reflection on their own patient journey and the intense contact with other partners during several conferences. New and experienced patients provide different kinds of contributions at different moments, finally resulting in a kind of aggregated and synthesized expert-input.

In projects that follow the dialogue method, a stepwise, multi-stakeholder approach for identifying priorities for health research,<sup>38</sup> patients develop and articulate their experiential



knowledge in a structured process of enclave deliberation; by exchanging and discussing personal experiences in a homogeneous group, anecdotal stories – also called ‘being familiar with’ – are subsequently transformed into practical knowledge (‘knowing how’) and expert-knowledge (‘knowing that’).<sup>18</sup> For the OMERACT conference all types of knowledge are important although there is a tendency to explore and utilize the anecdotal and practical knowledge during the pre-conference activities and the expert-knowledge during the conference. Relying on the input of *expert*-patients only, constitutes the risk of pseudo-professionalism that is reported elsewhere.<sup>39</sup> Are partners empowered by their new role in research or do they lose their naivety as a patient and align easily with professionals?<sup>40</sup> The effect may be that they operate apart from their peers and try to ease collaboration by suppressing their experience-based knowledge. Due to the dual relationship, partners may feel uncomfortable to express a personal and independent voice if this contradicts the view of their own physician. It is still not known whether partners sometimes try to please their physician by avoiding disagreement.

The self-organized training and support empowered not only the individual partners, but strengthened the mutual relationship with professionals too, a process that can be described as relational empowerment.<sup>41 42</sup> The structural collaboration in OMERACT, fostered by regular meetings during other conferences, sensitized both parties to the importance of beliefs and priorities of the others. Partners obtained a better understanding of the methodological challenges of outcome research and researchers learned about new domains that are relevant from a patient perspective. Through mutual discussions and exchange of personal experiences partners gained more confidence to speak up and to confront researchers with their own opinions. Researchers met partners that were able to raise their voice without reservations and experienced partners as a reliable ally. Structural involvement facilitated a mutual learning process and a better understanding of the perspectives of others. In this context relational

empowerment might contribute to a sustainable inclusion of the patient perspective in OMERACT activities without a total reverse of power<sup>43</sup>. OMERACT has created solid partnership relations that, in the longer term, may result in the integration of different sources of knowledge, also known as a melting of horizons. The characteristics of this process require further exploration.

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None

**Competing Interests**

None

**Contributorship**

MW, JK and TA conceived the idea of the study and were responsible for the design of the study. MW carried out the document analysis and all interviews. MW and MK were responsible for the coding of the interview transcripts. All authors provided input into the phase of cross-code checking and data analysis. The initial draft of the manuscript was prepared by MW and then circulated repeatedly among all authors for critical revision. All authors read and approved the final manuscript.

**Data sharing**

No additional data are available.

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Table 1 Characteristics of interviewees

	Professionals	Patient Research Partners	Interview Code
Sex (M:F)	12 : 4	7 : 9	
Professional background or Diagnosis	10 practicing rheumatologists 3 full time researchers 3 other professionals	10 rheumatoid arthritis 2 vasculitis 2 ankylosing spondylitis 1 fibromyalgia 1 gout	
Number of OMERACT conferences attended			
1	5	8	PA to PF, PO, PP
2	0	3	PG to PN
3	1	1	
4	4	4	
≥5	6	0	
Interview in relation to OMERACT conference			
Before	2	1	
During	8	16	
After	6	5	
Geographical spread	6 countries 2 continents	7 countries 4 continents	
Research	10 Senior Researchers		RA to RG, RJ, RK,



Background	1 Research Fellow	RY
	1 Post-doctoral researcher	RH
	2 Pharma representatives	RI
	2 Staff members	DA, DD
		DB, DC

For peer review only

Table 2

Facilitating and inhibiting factors for structural involvement of patients

Facilitating factors	Inhibiting factors
<b>Strong leadership</b> <ul style="list-style-type: none"><li>• Endorsement by key opinion leaders</li><li>• Long term financial and organizational commitment</li><li>• Ambassadors of participative research</li><li>• Acknowledgement of contributions</li></ul>	<b>Intensity of the program</b> <ul style="list-style-type: none"><li>• Physically challenging</li><li>• Intercontinental travelling</li><li>• Accessibility</li><li>• Mentally challenging</li><li>• Language &amp; terminology</li><li>• Remote themes</li></ul>
<b>Selection procedure</b> <ul style="list-style-type: none"><li>• Recruitment through clinicians</li><li>• Proportional representation</li><li>• Selection criteria</li><li>• Learning curve</li></ul>	<b>Skepticism</b> <ul style="list-style-type: none"><li>• Doubts about added value</li><li>• Risk of tokenism</li><li>• Imperceptibility of contributions</li><li>• Lack of continuity</li></ul>
<b>Conference design</b> <ul style="list-style-type: none"><li>• Multi-stakeholder approach</li><li>• Spirit of OMERACT</li><li>• Full &amp; equal participation</li><li>• Interactive breakouts</li></ul>	<b>Composition patient group</b> <ul style="list-style-type: none"><li>• Lack of representativeness</li><li>• Pseudo-professionalism</li></ul>

- 
- Structural involvement

### **Facilitative moderation style**

- Open dialogue
- Deliberate encouragement
- Respect of confidentiality
- Clear communication
- Sensitivity to patient values

### **Individualized support**

- Pre-conference information pack
  - Training
  - Personalized programs
  - Buddy system
  - Glossary
  - Pre-conference involvement
-

**Table 3**  
**Patient reported barriers to collaboration and strategies to reduce these barriers**

Barriers to contribute identified by partners	Helpful tools, responses and points to consider to encourage partners to contribute
<b>Feeling an observer in the conference, rather than a colleague</b> <ul style="list-style-type: none"><li>• Not involved from the beginning</li><li>• Lack of information</li></ul>	<b>Involve partners right from the start</b> <ul style="list-style-type: none"><li>• Provide background information in understandable language (research protocol)</li><li>• Treat all team members equally</li></ul>
<b>Inadequate introduction</b> <ul style="list-style-type: none"><li>• Not knowing what is expected</li><li>• Feeling not prepared for the job</li><li>• Unaware of the aims of the conference</li><li>• Why me?</li></ul>	<b>Discuss mutual expectations in a face-to-face meeting before the start of the conference</b> <ul style="list-style-type: none"><li>• What kind of contribution is expected from the partner?</li><li>• Has the partner affinity to the research topic(s)?</li><li>• In which phase or activities will the partner be involved?</li><li>• Who takes the initiative for contact and how?</li><li>• How will the partner be informed and supported along the way?</li><li>• What are specific needs of the partner?</li></ul>
<b>Doubts about their added value</b> <ul style="list-style-type: none"><li>• Feeling shy to tell personal stories</li></ul>	<b>Encourage partners deliberately</b> <ul style="list-style-type: none"><li>• Adapt to a patient-centered communication style and promote open dialogue, attentive listening and</li></ul>

<ul style="list-style-type: none"> <li>Assumption that experiences are obvious and already known to professionals</li> <li>Low status of anecdotal knowledge</li> </ul>	<ul style="list-style-type: none"> <li>authentic contact</li> <li>Invite partners to share their perspectives</li> <li>Ask open-ended questions and probes</li> <li>Give feedback on contributions</li> <li>Emphasize the importance of personal experiences and provide reassurance</li> </ul>
<b>Feeling unable to contribute</b>	<b>Tailor support to the competencies of the partners</b>
<ul style="list-style-type: none"> <li>Lack of knowledge about research and statistics</li> <li>Problem with medical jargon</li> <li>Problem with English language</li> <li>Hierarchy of professions</li> <li>Power imbalance</li> </ul>	<ul style="list-style-type: none"> <li>Provide lay summaries</li> <li>Create a learning environment: provide training opportunities</li> <li>Distribute reading materials before meetings</li> <li>Explain jargon without being asked</li> <li>Provide glossaries, journals and websites</li> <li>Help partners access and judge scientific literature</li> </ul>
<b>Feeling disqualified, not listened to</b>	<b>Be alert for sensitive issues</b>
<ul style="list-style-type: none"> <li>Feeling muddled about inappropriate disclosure</li> <li>Feeling dismissed when an initiative to contribute is ignored</li> </ul>	<ul style="list-style-type: none"> <li>Partners want to be regarded as individuals, from a holistic perspective</li> <li>Try to be inclusive</li> <li>Respect confidentiality and apply to ethical rules</li> <li>Acknowledge contributions</li> </ul>

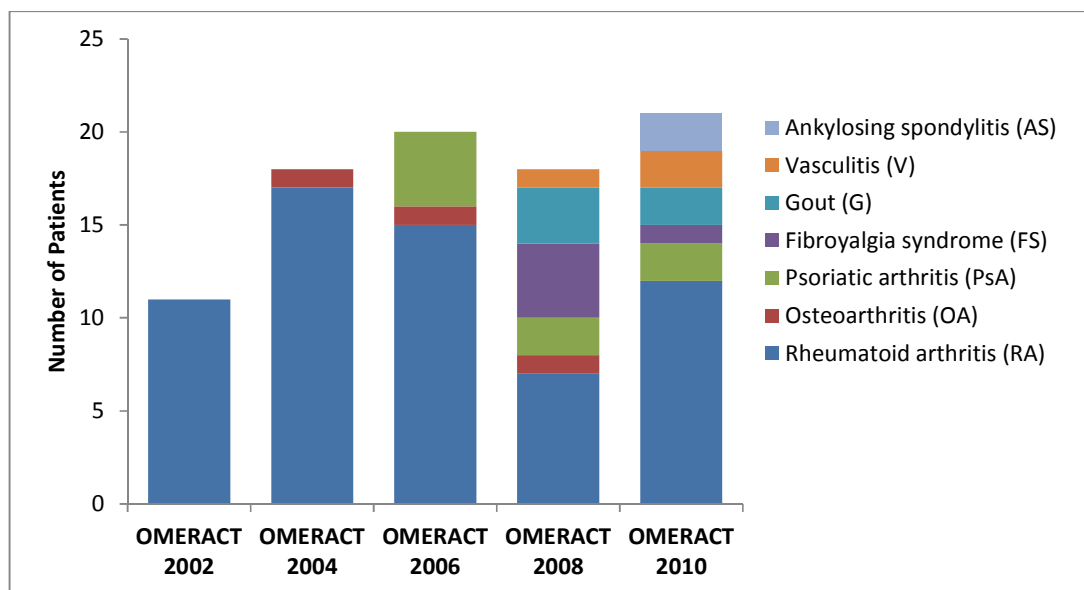
Online Table 1

Overview of tasks carried out by patient participants at OMERACT 6-10

- Act as co-chair of the patient participation workshop;
- Moderate break-out sessions
- Formulate questions for the workshop(s)
- Give a presentation at plenary sessions
- Weight different measures and domains
- Participate in different meetings as full delegates
- Provide input on pre- and post-conference documents
- Participate in workshops on fibromyalgia, gout, psoriatic arthritis, RA, AS and vasculitis
- Edit or contribute to the OMERACT patient newsletter
- Compile and edit the patient information pack and the OMERACT glossary
- Assist researchers to produce summaries suitable for lay participants
- Co-author scientific publications
- Promote topics from the research agenda on a national level
- Guide, support and inspire new patient research partners
- Disseminate the outcomes outside OMERACT.

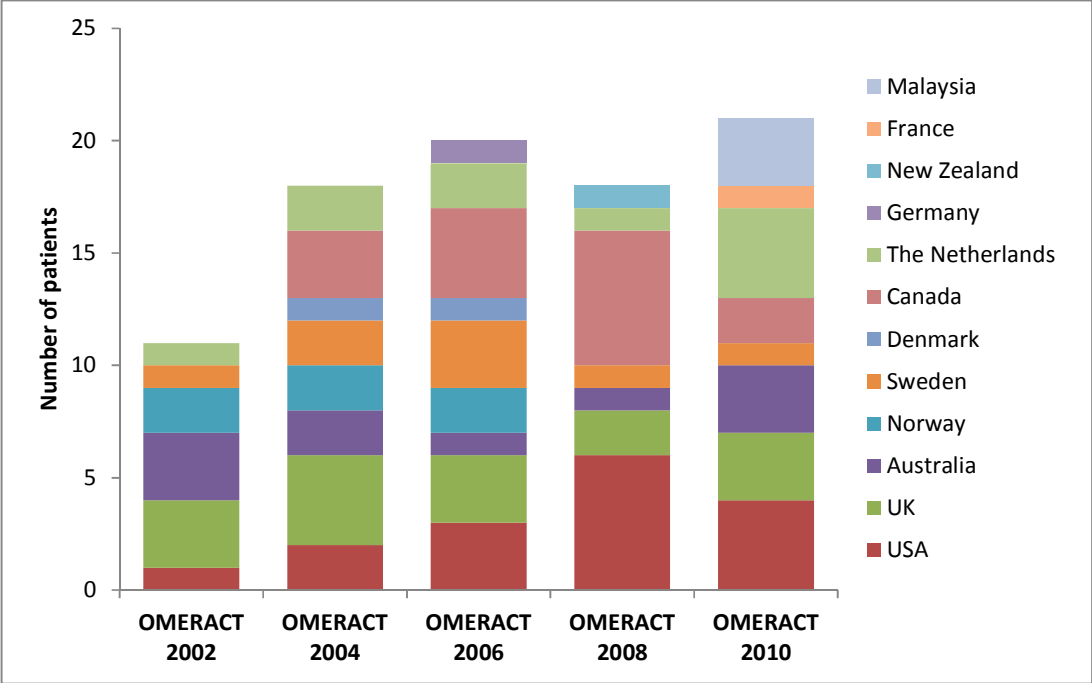
## Online figure 1

## Rheumatic conditions represented at OMERACT meetings between 2002-2010



Online figure 2

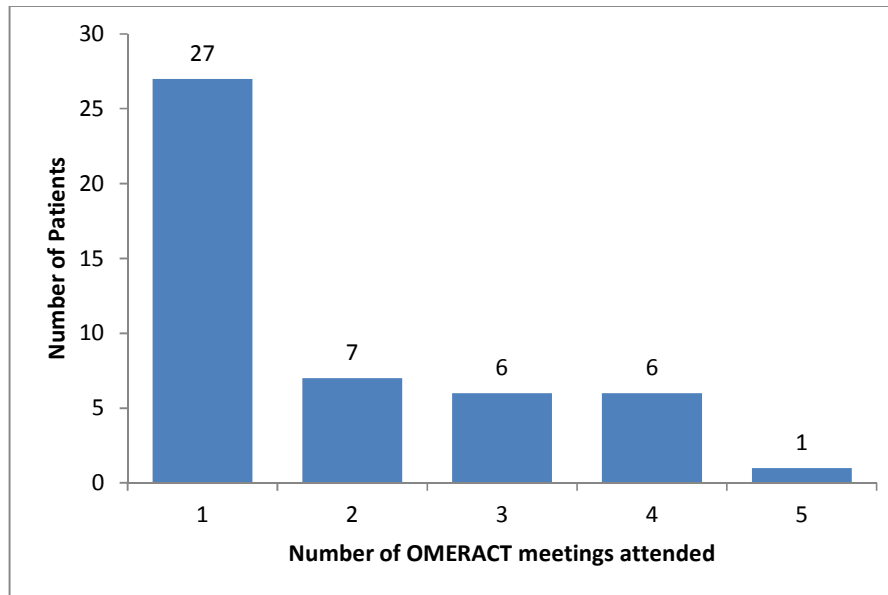
Countries represented at OMERACT meetings between 2002-2010





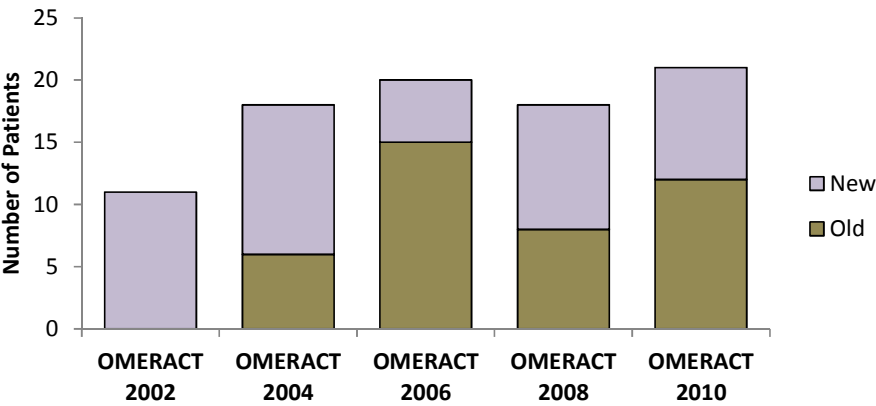
### Online Figure 3

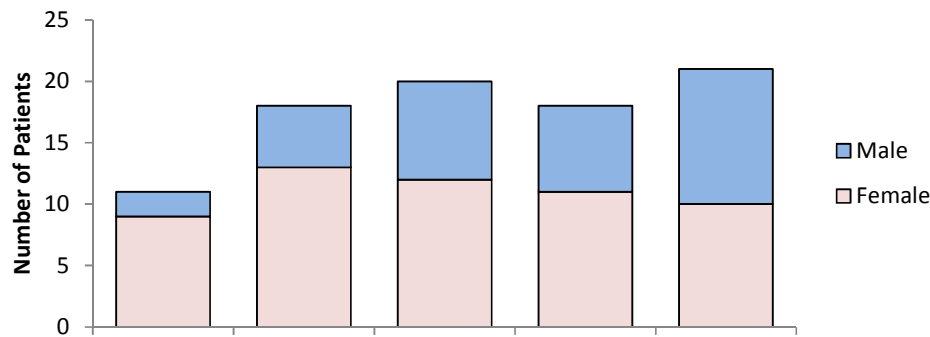
#### Number of times partners attended OMERACT between 2002-2010



Online figure 4

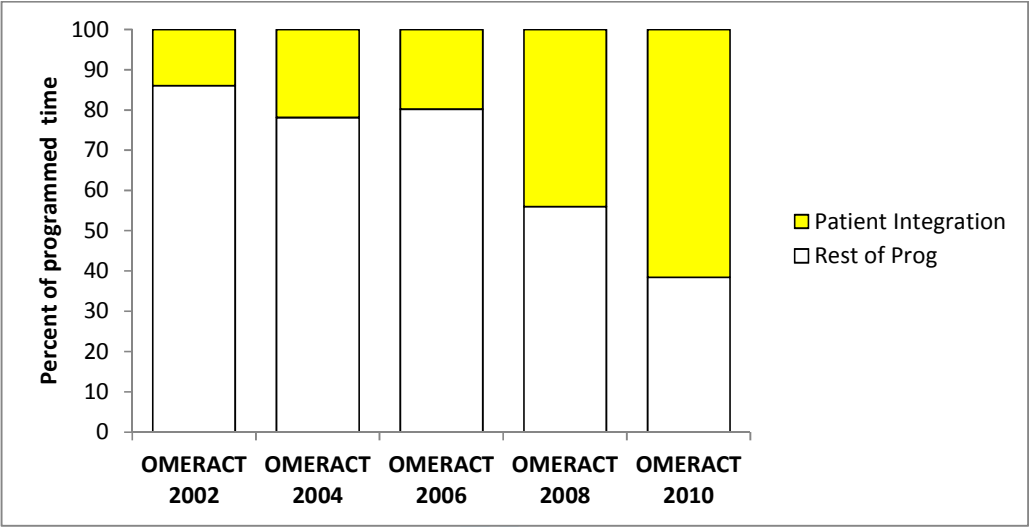
Number of new versus experienced patient participants between 2002-2010



**Online figure 5****Gender of the 47 patient participants between 2002-2010**

Online figure 6

Programmed patient integration at OMERACT meetings between 2002-2010





**Facilitating and inhibiting factors for long-term involvement of patients at outcome conferences - Lessons learned from a decade of collaboration in OMERACT.**

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<b>Primary Subject Heading</b>:	Rheumatology
Secondary Subject Heading:	Rheumatology, Qualitative research, Patient-centred medicine
Keywords:	QUALITATIVE RESEARCH, RHEUMATOLOGY, SOCIAL MEDICINE

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Facilitating and inhibiting factors for long-term involvement of patients at outcome conferences - Lessons learned from a decade of collaboration in OMERACT.

Abstract

Objective: Several studies have provided insights into the conditions for successful patient involvement in health research. We recently demonstrated that long-term engagement with people with rheumatic conditions in international outcome research led to significant changes in the research agenda in the field of rheumatology. This article explores facilitating and inhibiting factors for long-term involvement of patients as collaborative partners at five Outcome Measures in Rheumatology (OMERACT) conferences.

Design: Responsive evaluation, starting with a thematic document analysis of conference proceedings and grey literature, followed by 32 qualitative interviews. Interview transcripts were subjected to inductive content analysis.

Setting: Five international OMERACT conferences between 2002 and 2012.

Participants: Patient delegates (n=16) and professional delegates representing researchers (n=14), pharmaceutical industry and regulators (n=2).

Results: Combined review of the document analysis and interview data revealed 5 main facilitators and 3 main barriers. Patient engagement as full participants at OMERACT conferences was enhanced by: strong leadership commitment and the presence of change agents; a clear selection procedure; an inclusive consensus-based conference design; individualized and self-organized support; an interactive and encouraging moderation style during discussion groups. Barriers were related to the intensity of the conference programme, scepticism among researchers, and doubts about the representativeness of the patient group.

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3 Conclusions: This study concludes that developing a sustainable structure for funding,  
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5 selection, and support of patient delegates, and adjusting conference design and moderation  
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7 style, contribute towards facilitating direct dialogue between all stakeholders and towards  
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9 enhancing mutual understanding and the successful incorporation of the patient perspective in  
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11 an outcome conference such as OMERACT.  
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**Article Summary**

**Article focus**

- The bi-annual conference on Outcome Measures in Rheumatology (OMERACT) has extensive experience with the structural involvement of patients as collaborating partners in outcome research.
- Through a systematic document analysis and 38 qualitative interviews with all stakeholders we explore the facilitators for and barriers to long-term participation of patients in outcome research.

**Key messages**

- Making patient participation an integral part of the conference vision, structure and programme enables the effective and efficient inclusion of the patient perspective.
- Suitable introduction and personalized training and support for patients are important conditions for successful engagement with patients.
- The role of moderators in small group discussions is pivotal for enabling patients to contribute to research and to foster the mutual learning processes of all participants.

**Strengths and limitations of this study**

- OMERACT is a unique opportunity to evaluate the requirements for the long-term involvement of patients as conference partners in a highly scientific environment.
- Generalizability and transferability of the result findings to conferences on national and local levels and to other disciplines is limited and additional research is required.



## Keywords

patient participation; OMERACT; outcome research; qualitative research; research conference; responsive evaluation; rheumatology; user involvement

## CONTRIBUTORSHIP

MW, JK and TA conceived the idea for the study and were responsible for the study design. MW conducted the document analysis and all interviews. MW and MK were responsible for coding the interview transcripts. All authors provided input for the cross-code checking and data analysis phases. MW prepared the initial draft of the manuscript, which was then circulated a number of times for critical revision among all authors. All authors read and approved the final manuscript.

The past decade has seen an increase in the number of patients becoming involved in health research. The background to this is the general trend towards empowered health consumers, and an acknowledgement of patients' entitlement to influence research that will affect their daily life. Patients aspire to more horizontal and deliberative partnerships with researchers, which has resulted in a range of different patient roles.<sup>1-4</sup> Patients may be: committee members; reviewers of protocols or grant applications; advisors; panel members or research commissioners. Each patient role implies different tasks and different kinds of contributions, and roles can be performed at different levels of involvement.<sup>5,6</sup> Most case studies observe a power shift between patients and researchers. However, participative research remains to be justified since there is still little evidence as to the effectiveness of these new patient roles.<sup>7</sup>

One new role in health research is that of the patient as conference partner. Patients in this new role do not participate as patient advocates or representatives of patient organizations. Neither do they attend conferences for networking purposes, or for learning about new developments related to their condition. With a view to providing the patient perspective, patients are invited to collaborate with researchers as equal partners. This is the case with OMERACT: the Outcome Measures in Rheumatology conferences. Here patients have successfully changed the research agenda, contributed towards developing core outcome sets, and helped to devise new measurement instruments.<sup>8</sup> As far as we are aware, there is no literature that explores the tasks, contributions and challenges of patients as collaborating partners at scientific conferences. We do however know more about patient research partners, a role that is similar to that of patients as conference partners. The term patient research partner was coined in the context of rheumatology<sup>9</sup> and can be defined as 'persons with a relevant disease who operate as active research team members on an equal basis with professional researchers, adding the benefit of their experiential knowledge to any phase of the project'.<sup>10</sup> Patient research partners have actively contributed towards developing research

agendas for people with spinal cord injuries,<sup>11</sup> intellectual disabilities,<sup>12</sup> and chronic kidney disease.<sup>13</sup> Patient research partners can also be involved in developing research designs, collecting data, and in the development of patient-reported outcomes.<sup>14</sup> Patient research partners at the Department for Rheumatology at the University of Bristol have contributed to the study of fatigue.<sup>15</sup> Internationally, patient research partners have been involved in the study of flares in rheumatoid arthritis (RA)<sup>16</sup> and in the development of a new patient-derived quality of life measure for RA.<sup>17</sup>

There is some evidence that the active involvement of patient research partners brings with it several benefits to research<sup>18 19</sup> but there is little evidence or consensus about the factors that facilitate or constrain effective involvement. OMERACT is the first series of international research conferences that has successfully engaged with patients as collaborating partners over a substantial period of time.<sup>8</sup> However, it is still not known which factors support this success, how the culture, structure and procedures have facilitated patients to contribute effectively, and how previously reported barriers have been removed. The objective of the present study is to describe how OMERACT has organized structural collaboration with patients in its conferences over the past decade, and to examine which factors have supported or inhibited this process. We also analyse how this process has changed OMERACT delegates' perceptions and beliefs on patient involvement.

### **The context: OMERACT**

OMERACT started in 1992 to achieve consensus on a core set of outcome measures for clinical trials in rheumatoid arthritis. Based on the success of the first conference, it went on to become a worldwide, data-driven working conference known for its interactive conference design and high scientific rigour. The conference brings together a wide range of professionals with an interest in the methodology of clinical trials in the field of

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3 rheumatology. The objective is to build consensus on core outcome sets and appropriate  
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5 measurement instruments for clinical trials. Since 2002 OMERACT has invited patients as  
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7 full conference participants based on the belief that outcomes for clinical trials need to be  
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9 derived from 'the lived experience of arthritis' and from 'concepts which can be readily  
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11 communicated to patients to help with therapeutic decision making'.<sup>20</sup> A total of 58 patients  
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13 took on this role between 2002 and 2012. Of the 172 conference participants at OMERACT  
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15 10 (2010) there were 152 professionals and 20 partners. Partner characteristics are given in  
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17 the online figures 1-5.  
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21 In a separate case study we explored the expectations and experiences of patients who  
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23 were participating in OMERACT for the first time.<sup>21</sup> They reported a number of barriers to  
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25 full collaboration with professionals, and such things as preparation, the professionals'  
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27 moderation style, and the lack of individual support on site. They believed that the  
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29 contributions they made to the breakouts were not significant, and that their experiential  
30  
31 knowledge was not optimally used. They believed, nevertheless, that their involvement had  
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33 been valuable and meaningful. They confirmed they had experienced personal learning  
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35 curves, and felt that they would be able to contribute more effectively at a subsequent  
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37 conference.  
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41 In a previous publication in which we reported on the impact of patient participation in  
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43 OMERACT, researchers confirmed that the involvement of both new and experienced  
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45 patients had been a success, and that this had significantly influenced the conference  
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47 outcomes.<sup>8</sup> Patients had enriched the research agenda with new topics such as wellbeing,  
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49 flares, sleep disturbances and, most illustrative of all, fatigue. A substantial amount of work  
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51 on fatigue in rheumatoid arthritis has been published<sup>22 23</sup> and OMERACT participants have  
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53 almost unanimously confirmed that this research would not have been rigorously conducted  
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55 or even identified without patients being present at the conferences.  
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## Challenges

In this study we address a number of challenges that we are aware of from previous studies that have examined the role of patients as research partners. One of the most important challenges is the fact that personal experience or lay knowledge is not accepted as a valid source for scientific research.<sup>24</sup> It is often perceived as inferior compared with professionals' evidence-based knowledge.<sup>25</sup> This means that patients find it hard to create a basis for trust or for equal collaborative relationships.<sup>18 26</sup> Caron-Flinterman studied 23 cases of active patient involvement in biomedical research and argued that the deliberate use of patients' experiential knowledge requires additional research.<sup>27</sup> Recent studies have demonstrated that starting with dialogue and deliberation among patients in collaboration with patient research partners is an effective way to strengthen their voice and develop a shared knowledge base grounded in the experiential knowledge of individuals.<sup>18 19</sup> However, further understanding of the nature and significance of lay knowledge in the context of medical research and research conferences is still necessary.

A second challenge is that some researchers are reluctant to engage with patients and believe that involving patients amounts to some kind of tokenism.<sup>28</sup> Other researchers may have difficulty adjusting their language and communication style, which only perpetuates a significant barrier to collaboration. Elberse studied the effectiveness of inclusion strategies to incorporate patients' perspectives in the development of a research agenda for people with congenital heart disease.<sup>29</sup> This study concluded that verbal communication is an important inhibiting factor and additional inclusion strategies are needed if an effective partnership between patients and professionals is to be achieved.

A final recurring challenge is the lack of knowledge required to implement the structural involvement of patient research partners.<sup>6</sup> Structural involvement means that the initiative to engage with patients is not incidental, and dependent on the goodwill of one or two

individuals. In contrast, it is a long-term commitment to engage with patients by making patient participation an integral part of the vision, structure and practices of the organization. The evidence base underpinning the assessment of effective conditions for patient involvement is relatively weak, due primarily to poor documentation, analysis and reporting.

**Method**

*Data collection*

Data collection was based on a thematic document analysis and 38 interviews with representatives of all stakeholders involved in OMERACT. The document analysis included OMERACT conference proceedings and grey literature such as OMERACT policy documents, correspondence, invitations, session reports and e-mails. The document review focused on the objectives and structure of the conference, number of patient delegates, their selection, preparation and support, and the rheumatic conditions and countries represented. We were particularly interested in the explanation and arguments given for the way OMERACT created, changed or improved operational procedures and the way participants accepted or adjusted them.

Following the document review the first author performed a responsive evaluation<sup>30</sup> by conducting qualitative interviews with representatives of all stakeholders before, during and within four weeks following the 2010 conference. Finally, the opinions and experiences of 16 professionals and 16 patients were collected (Table 1). Of the 8 patient delegates who attended OMERACT for the first time, 3 were interviewed on 3 different occasions during the five-day conference. This was done to obtain accurate insights into any changes that occurred in their expectations, experiences and contributions.

All interviews were recorded, transcribed by an independent secretariat and subjected to a responder check. The interviews lasted an average of 52 minutes. The interview protocols differed for professionals, new patients and experienced patients. The topics covered the expected role of patient participants, their selection, preparation and support, and their experiences in discussion groups, in particular those during the workshops on remission and flares. All participants gave their informed consent prior to the interview. No ethical approval from the MEC was needed for this study.

### *Interviewee selection*

Maximum variation was the aim when selecting interviewees, and the selection was made using an emergent purposive sampling approach, based on stakeholder's background, opinion about patient involvement, gender, geographical spread and number of OMERACT conferences attended. The selection strategy took account of the limitations inherent in a five-day international conference. Potential candidates for face-to-face interviews should be willing to dedicate some of their time for the interview during the conference. Preliminary analyses of the initial interview data conducted immediately after the conference revealed an unexpected response shift. Professionals' The attitude towards patient involvement of professionals who were initially assumed to be critical, had changed significantly. Their scepticism had made way for a more positive assessment of collaboration and its benefits. For this reason we sought out two new interviewees who were known for their critical perspective. The views of a research fellow and a post-doc researcher were missing and subsequently added to the list of interviewees. Saturation was achieved after the additional transcripts had been analysed.

[table 1]



*Data analysis* – An inductive, content analysis of all the data was performed. The entire interview transcript was read first to identify emerging themes and subthemes related to the research topic of facilitators for and barriers to patient participation in OMERACT conferences. All text fragments were given a descriptive label or code relating to a specific theme or subtheme. For example: ‘there is still an undercurrent that questions the issue of the added value of patient input’ was labelled as ‘(low) expectations of patients’ contribution’. Each interview was first analysed separately. Any new emerging theme was added to the process of labelling and analysis, and also adopted for the interviews previously analysed. This is referred to as open coding. In the subsequent, axial coding step, the data from the different interviews were compared (cross case analysis) and grouped into clusters based on the main emerging (sub)themes. The descriptive labels were removed by interpretive codes that refer to the meaning of an experience. In our example the labels were placed under the subtheme of ‘doubts about the added value’ and ‘resistance to change’. In the final step we concluded that both themes were strongly related to ‘scepticism among researchers’ which was identified as one of the three main barriers to implementing structural patient participation. An example of the audit trail of some of the text fragments can be found in Appendix 1.

The quotations of the different interviewees were compared and example citations were identified per cluster and theme. A further understanding of the facilitating and hindering factors was obtained by comparing the themes among those participants who were satisfied about the conference as opposed to those who were more critical.

The analysis concentrated on those aspects involving how the conference was conducted, the preparation and the breakout sessions that have a direct influence on the ability of patient delegates to contribute. The documents and the interview data were analysed with a view to



ascertaining what structural arrangements OMERACT made to facilitate the incorporation of patient knowledge in the conference. All team members – representing different perspectives and professional backgrounds - were involved in the data analysis and interpretation.

### *Quality procedures*

Triangulation was done by synthesizing interview data and results from the document analysis. In order to improve the relevance and quality of the analysis and interpretation of the data, a patient who attended OMERACT 10 for the first time (SC) joined the research team. She was actively involved in the data coding and analysis, team meetings and in drafting this article. To increase the inter-rater reliability of the coding an external expert in qualitative research (MK) who had never worked with conference partners before, participated in all phases of the study, starting with the transcript coding phase. All quotes in this article are presented as if made by female participants in order to preserve participant anonymity. Quotes by professionals are indicated by 'R', and those of conference partners (in short: 'partners') by 'P'.

### **Results**

During the combined review of the document analysis and the coding of the interview transcripts the research team grouped 1,563 open codes into 44 meaningful generic categories, 29 of which were descriptors of facilitators and 15 descriptors of barriers. In a second review round, 8 main categories emerged that characterized the conference elements that either supported or inhibited the contributions made by partners. The team finally defined the content of these categories and divided them into 5 main facilitators and 3 main barriers (Table 2). The 5 facilitators included: the role of leadership; selection procedure; conference design; moderation style, and support. The 3 barriers were the programme intensity,

scepticism among researchers, and representativeness of the patient group. Each barrier is described below with examples from the data.

[Table 2]

**Facilitators**

*Leadership*

Long-term commitment and support of opinion leaders is key to the success of new initiatives. The OMERACT organizing committee was intrinsically motivated to foster patient engagement in the conference: ‘We believe their input is essential to decide on the right measurement tools’.<sup>31</sup> According to one of the members of this committee, the decision to invite patients was not taken lightly, and was discussed at several planning meetings. The committee was daunted by the question: ‘how to organize patient participation?’[RD]. When the decision was taken, the leadership was determined to do it properly. They gave full support to the patient perspective working group leader who took on the role of a change agent, and provided funds to enable patient partners to attend the conference. These costs amounted to over \$ 80,000 in 2012. They also acknowledged the repeated contributions made by partners: ‘Their dedication to the process is an example for us all’ (ibid). Based on the positive experiences of two conferences attended by partners, OMERACT formulated basic principles for patient engagement in 2006: ‘OMERACT policy on including the patient perspective in rheumatology outcomes assessment’ [internal document]. This document was a milestone because it made patient participation part of OMERACT’s vision, embedded in a set of operational procedures. After three further conferences, the Executive Committee

agreed on the principle that active patient involvement would be a prerequisite for working groups to put forward themes for the OMERACT programme.<sup>20</sup>

The leadership recognized the value of a mixed group of new and experienced partners and was committed to providing opportunities for experiments and long-term learning. They confirmed that a learning curve is a requisite for being productive.

### *Selection*

It was clear from the outset that patient participants were not expected to represent any group or organization. Although partners might be members of patient organizations, their role at OMERACT should be strictly personal and individual. Their contribution is valuable purely because of their personal experience: ‘a living knowledge of their long-term conditions’ and ‘the unpredictable nature of their illness’ [internal report, 2008]. Their input is not linked at all to advocacy for resources or to attention for a particular disease. Recruitment is done through the clinic of participating physicians ‘to ensure that people were invited who could make a contribution in unfamiliar circumstances’.<sup>32</sup> In practice physicians proved to be in an ideal position to identify eligible patients simply because they were familiar with the patients themselves and with the OMERACT requirements.<sup>20</sup> Since 2004 OMERACT has aimed for 10% of patients with a mix of conditions [online figure 1], geographical spread [online figure 2] and OMERACT experience [online figure 3].

Partner selection is still a cause for concern, particularly as regards the dual relationship between the individual patient partner and their physician. Participants reported that the current system had a number of significant advantages: this personal relationship clearly motivates patients to take part; it makes researchers feel responsible for the appropriate guidance of and funding for the partners, and precludes the selection of patient advocates. Some respondents pointed out that there might be a risk that partners might not dare to speak

openly about their opinions in the presence of their own physician. In one case a partner admitted that ‘pleasing’ or ‘identification with’ her own consultant had played a role when she felt she had to defend her consultant’s point of view when delegates criticized her for not having incorporated the patient perspective sufficiently in the presented data.

As the result of structural involvement, the relationship between partners and researchers has developed into equal collaboration in many aspects of the conference. Participants have tended to raise the level of competencies required: partners are expected to speak up; provide the patient perspective; compartmentalize their clinical relationship<sup>9</sup>, and carry out tasks just like all other delegates. Most participants confirmed that partners must be able to understand the basic principles of research, contribute during discussions, and receive criticism.

*Conference design*

OMERACT started out as an informal gathering of researchers interested in outcome measurement in rheumatology<sup>33</sup> and evolved into a biannual five-day working conference with a multi-stakeholder approach. Participants confirmed that the modest size of the conference, the attitude of the delegates, and the spirit of OMERACT as an open and inclusive initiative, have all been beneficial for a positive reception of the concept of patient participation: ‘I think that most of the researchers and clinicians that go in here are rather open minded’ [RB]. Partners felt welcome at the conference: ‘You do feel like you’re part of the family’ [PH], and ‘OMERACT is probably the most patient inclusive meeting’ [PI].

The conference layout and the strong focus on active interaction and debate in small groups, including pre- and post-workshop meetings, have been specifically designed to serve the need to integrate diverse perspectives, and to avoid one single dominant voice: ‘At times discussion on topics may be strongly influenced by key opinion leaders, but holding more meetings of smaller concurrent interest groups has partially remedied this problem’.<sup>34</sup> The

breakout discussions also: 'support the patient contributions in what might otherwise be a very professionally oriented forum' (ibid.).

Partners were officially invited to participate as full delegates with voting rights and access to all sessions, discussions and events. Some of the more experienced partners felt they were on a par with the professionals and acted as co-researchers by co-moderating, reporting back or becoming co-authors (online Table 1). The majority of partners believed it was their role to give information or advice, but found themselves sometimes in the role of an observers. New partners in particular often felt the same disparity towards professionals as is experienced in clinical practice. The interviews revealed that new researchers and research fellows sometimes also experienced this disparity.

### *Moderation style*

The breakouts during the OMERACT conferences lie at the heart of the conference. Although moderation is part of the conference proceedings and has been described in separate guidelines [internal document], the quality of moderation was considered to be of the utmost importance: A facilitator can either help partners contribute to their full potential, or relegate them to the sidelines as silent observers. The partners considered a facilitative moderation style and an environment that fosters mutual learning through open dialogue to be critical conditions for empowering them to make their voices heard and to contribute fully to the objectives of the sessions. One of the partners described what made her feel confident enough to say something:

'Just simple things, like at the start: we had something like a semi-circle [for the seating] rather than in rows. So we could all interact and see each other. Basic stuff like that. Especially for somebody like me with a hearing disability it is important to

see all the faces’. And the moderator: ‘did thank everybody for coming, made us all feel welcome and stopped a couple of times through the session to say “what do the patients think?” We were all given the opportunity to speak, and weren’t cut off or being manipulated or something like that, it (...) all really felt equal.’ (PC)

Partners were at times confronted with what seemed like a patronizing attitude on the part of a moderator or other delegate. Occasional comments such as: ‘That is quite obvious’ were felt to undermine their competences or disease experience. As a result partners sometimes felt ignored, frustrated or unable to contribute. The language was also a barrier for some whose first language is not English. This was something that had been underestimated and partners tended to refrain from saying something when they were afraid of not using the right words or expressions.

Good moderators used the dynamics of a dialogue to articulate partners’ opinions:

‘Because one patient can say something which facts up the other patients in the room to say “yes, this is very important and I haven’t thought about it but now that’s been brought up: absolutely”. I’ve seen examples of that many times at OMERACT and you almost hear the penny drop, it was all of a sudden a big light bulb goes on and everyone says ‘yes, absolutely!’ (PH)

Moderators’ behaviour was sometimes considered unethical or to be a poor approach to sensitive issues. For example, on one occasion a discussion on a rare rheumatic disease caused distress for one of the partners affected by that disease when mortality rates were presented. The researcher mentioned somewhat dismissively that this was not relevant for the topic under discussion. The off-hand dismissal of the scientific importance of

mortality in relation to the discussion topic could not easily be separated in the partner's mind from a dismissal of the importance of mortality for patients in general and for her in particular. An overview of the strategies moderators have found useful for reducing partner reported barriers is given in Table 3.

[Table 3]

### *Support*

According to the OMERACT organizers, the first conference that included patient involvement was actually the easiest and most successful because none of those involved had any expectations. Partners formed a homogeneous group and the programme was not demanding. Despite the fact that support was limited and there was a minimum of organization, patients felt welcome and accepted.<sup>35</sup> Partners at subsequent conferences were highly motivated to learn in the OMERACT way and started to organize themselves. They formed a patient liaison group responsible for communication between the patient group and the organizing committee. Experienced partners developed information modules to bring newcomers up to a basic level of understanding of the scientific purpose of OMERACT. Where necessary they approached professionals for assistance.

In 2010 partners received a pre-conference pack with information about the programme, lay summaries of the workshop objectives, and a participant list. New partners were teamed up with a more experienced partner who took on the role of buddy. On arrival at the conference, partners gathered together for their own dinner and an introductory meeting was held. Before the official programme started on the second day, partners also followed a half-day training session moderated by the Chair of the liaison group. Workshop leaders provided disease-specific patient update sessions prior to the workshops. And for a better



understanding of the discussion topics, important terms, questionnaires or issues were explained in more detail. Experienced OMERACT partners coordinated the production of a glossary<sup>36</sup> which turned out to be so useful that both researchers and partners received a copy. The glossary is updated for every conference with input from the working group leaders.

The current intention of OMERACT is to optimize support by tailoring it to the individual needs and competencies of partners. To overcome the barrier of an exhausting programme, the patient liaison group drew up personalized programmes that helped new partners pace themselves by making informed decisions about which sessions they should attend as a minimum, and which sessions they should only attend if their condition allowed it. Other suggestions were related to the OMERACT pre-conference work. It is now expected that early participation in working groups is the best way to prepare partners for taking part in the conference.

**Barriers**

*Programme intensity*

OMERACT is an overwhelming experience for all partners attending the conference for the first time.<sup>21</sup> One significant barrier was the exhausting conference programme. The following were physically challenging: (intercontinental) travel and change of climate; accessibility of the conference venue; early and late starting times of sessions; and the duration of the conference. New partners in particular often participated far beyond their physical capacities. They were not able to decide which sessions were most relevant and they consequently tried to go to all of them. The following were mentally challenging: the use of medical or methodological jargon; uncertainty about their expected role and contributions; and dealing with hierarchical power relations and highly opinionated professionals. A recurring difficulty



was the invisibility of the importance of one's own contribution. In sessions dedicated to their own disease partners were more confident about their contributions than in sessions that dealt with topics they were less familiar with. The barriers experienced by new partners have been reported in detail in a previous study (ibid). Experienced partners coped better with the requirements of the conference and reported fewer barriers.

### *Scepticism*

The notion of including patients as participants in OMERACT reached a tipping point at the final voting session at OMERACT 5 (2000). Interviewees at this conference were unanimous in their recollection of how the decision to invite patients was not impulsive but based on extensive debate among the organizers. They confirmed that it was somewhat serendipitous: although the proposal to invite patients to the next conference came spontaneously from the audience, the organizers had, in fact, discussed the issue beforehand. The majority was indifferent and did not object to the notion as an OMERACT principle.

Some respondents were not initially convinced that partners would have any added value, and suggested that the leadership had extrinsic motives i.e. to promote patient involvement for reasons of political correctness. Others did not believe that partners would be able to think beyond their own condition or understand the rigour of the methodological discussions. Some researchers saw the unconditional endorsement as tokenism, but did not object as long as it would have no bearing on their own research; one respondent admitted she did not feel confident enough to express politically incorrect opinions out of fear of being disapproved of by her colleagues.

After OMERACT 6, researchers gradually started to see and experience the benefits of patient involvement and changed their views.

‘At the start I was not optimistic and I saw several objections. First, patients don’t understand clinometric issues. Secondly, I did not see any potential contribution of patients. But I got convinced when they started to organize themselves, the glossary, the training modules... Patients proved to be good organizers to lift themselves to a higher level... Patients were professional and very motivated, which was different for other new researchers entering OMERACT and not having much interest in the methodology of outcome research.’ (RE)

In 2010 a few respondents still believed that the disadvantages still outweighed the benefits. They considered that the influence of partners was out of balance, and feared there would be less interest in solving methodological challenges, and that there would be a negative impact on the range of topics on the research agenda. They felt compelled to engage with partners in areas of research where they barely saw any added value, such as imaging and biomarkers. Most partners confirmed this opinion and admitted that domains that are far removed from their daily life would be less likely to benefit from their input. Some partners were particularly keen to contribute to areas of research such as work, remission, flares, doctor-patient communication, adherence, and non-pharmacological interventions such as self-management. They believed that they could contribute to research focused on their own condition but were uncertain about providing meaningful input to other rheumatic conditions. Physicians agreed with this to a considerable extent.

*Patient group composition*

Institutionalization of patient involvement gave rise to a debate on the representativeness of professionalized partners. OMERACT policy welcomes partners to provide the ‘naïve’ dimension based on the assumption that what has been achieved in the past is the result of a

balance between new and experienced partners [internal report; 2008]. However, there has been a tendency to raise the selection criteria in order to recruit partners who are aware of the methodological issues at stake. Some respondents objected to the participation of partners who do not understand the rigour of scientific research, who tend to slow the process down and hence cause irritation during breakouts. They argued that partners should be selected in accordance with stringent criteria such as academic education and preferably a professional background in medicine or health care: 'It makes the conversation run more smoothly'. The patient perspective is important but should be obtained during pre-conference research work.

Other participants emphasized the irreplaceable value of new partners for generating new ideas and a 'real' patient-oriented perspective. These researchers reported the potential risks of experienced partners becoming too professional, adapting their language, identifying themselves with researchers, and finally losing touch with their peers. And some respondents warned that partners who started acting as patient advocates might compromise the outcomes of OMERACT as a data-driven evidence-based conference.

## Summary

Through this empirical study we now have a better understanding of the factors for successful collaboration between patients and professionals in a scientific conference. Integrating the involvement of patients as equal partners in the programme is an effective way to incorporate the patient perspective in outcome research. The way the conference is organized, and the benefits as experienced by researchers have changed their perception in favour of structurally integrating partners in all parts of the conference. Factors that stimulated this process were the long-term commitment on the part of the leadership; partner selection through participating physicians; and an inclusive conference design. A facilitative moderation style and the personalized support of partners were essential. Barriers were often the negativity of the

facilitators, the intensity of the conference programme, scepticism among researchers, and the competencies and representativeness of the patient group.

**Discussion**

OMERACT has provided a unique opportunity to evaluate the requirement for the long-term involvement of patients as conference partners in a highly scientific environment. Our evaluation showed that structural collaboration, fostered by consensual leadership, is essential for successfully engaging with partners and confirms the finding of a case study in the field of diabetes.<sup>37</sup> The current study has increased our knowledge and understanding of the challenges of structural involvement at an international research conference and might serve as an example for other conferences. Key opinion leaders could take a pro-active lead in this. By starting to invite patients and by providing adequate training and support, scepticism and resistance to change, elsewhere identified as important barriers for implementation,<sup>28</sup> transform into a supportive attitude. In our study we found that scepticism is often based on prejudice surrounding the benefits and a fear of tokenism. However, the gradual engagement of partners in OMERACT has been a process of empirical learning: improving and adjusting inclusion strategies as the result of continuous reflection. Participants became much less sceptical when partners started to organize themselves and when they saw the positive influence partners had on the flow and content of the conference. Concerns that were initially expressed, turned out to be unfounded: patients came with an open mind and without an agenda; they were able to transcend their own individual experiences, and to understand the objectives of OMERACT. All these experiences convinced most participants that inviting patients is inevitable if the ongoing challenge of developing outcomes that reflect the interests of people with arthritis is to be addressed.

Although the impact of patients at OMERACT has been substantial, it is difficult to summarize how the experiential knowledge of partners is actually utilized during the OMERACT breakout sessions. Researchers are not used to taking notes about the particular contributions partners make, and journals do not expect authors to report on input given by partners. When patient involvement is an integral part of the conference, it is almost impossible to distil individual contributions. There are, moreover, hidden contributions: an impact that is not noticed either by the researcher or the partner. And finally patients tend to underestimate the value of their own experience. More sophisticated methods are required to articulate and evaluate their experiential knowledge.

Some researchers in the field of rheumatology have, in fact, started to describe how they have involved partners<sup>15 16</sup>, and this is necessary because patient involvement is not yet fully understood. OMERACT participants also still believe that patient expertise is not fully utilized and conditions to facilitate the contributions of partners are still far from optimal. A remaining challenge is to develop full involvement in all phases of OMERACT by engaging partners in the pre- and post-conference working groups, and by exploring categories and phases of research where patient involvement is expected to be the most beneficial. Future research will enhance our body of knowledge on the feasibility and effectiveness of different strategies to include patients in conference sessions and of our understanding of the nature and significance of lay knowledge.

Another challenge that requires further research is the representativeness of patient research partners.<sup>14</sup> Partners have generally been educated, white, middle class and socially skilled people capable of collaborating with professionals in a critical though constructive manner. This means that important perspectives from other groups might be missed. Most professional participants believe that – despite the lack of representativeness - partners are an asset to the conference because of their personal contributions based on introspection,

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3 reflection on their own patient journey, and the intense contact with other partners at several  
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5 conferences. New and experienced patients make different kinds of contributions at different  
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7 times, finally resulting in a kind of aggregated and synthesized expert input.

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10 In projects that follow the dialogue method: a stepwise, multi-stakeholder approach for  
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12 identifying priorities for health research,<sup>38</sup> patients develop and articulate their experiential  
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14 knowledge in a structured process of enclave deliberation; by exchanging and discussing  
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16 personal experiences in a homogeneous group, anecdotal stories – also called ‘being familiar  
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18 with’ – are subsequently transformed into practical knowledge (‘knowing how’) and expert-  
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20 knowledge (‘knowing that’).<sup>19</sup> All types of knowledge are important for the OMERACT  
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22 conference, although there is a tendency to explore and utilize the anecdotal and practical  
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24 knowledge during the pre-conference activities and the expert-knowledge during the  
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26 conference itself. Relying solely on the input of *expert* patients runs the risk of pseudo-  
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28 professionalism that is reported elsewhere.<sup>39</sup> are partners empowered by their new role in  
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30 research or do they lose their naivety as a patient and align easily with professionals?<sup>40</sup> The  
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32 effect may be that partners operate separately from their peers and try to ease collaboration by  
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34 suppressing their experience-based knowledge. Due to the dual relationship, partners may feel  
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36 uncomfortable expressing a personal and independent voice if it contradicts the view of their  
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38 own physician. It is still not known whether partners sometimes try to please their physician  
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40 by avoiding disagreement.

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43 The self-organized training and support empowered not only the individual partners, but  
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45 also strengthened the mutual relationship with professionals, a process that can be described  
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47 as relational empowerment.<sup>41 42</sup> The structural collaboration in OMERACT, fostered by  
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49 regular meetings at other conferences, sensitized both parties to the importance of beliefs and  
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51 priorities of the others. Partners benefited from a better understanding of the methodological  
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53 challenges of outcome research, and researchers learned about new domains that are relevant  
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from the patient point of view. Through mutual discussion and the exchange of personal experiences, partners gained more confidence to speak up and confront researchers with their own opinions. Researchers met partners who were able to have their say without reservation and recognized partners as reliable allies. Structural involvement facilitated a mutual learning process and a better understanding of the perspectives of others. In this context relational empowerment might contribute to a sustainable inclusion of the patient perspective in OMERACT activities without a total power reversal<sup>43</sup>. OMERACT has created solid partnership relations which, in the longer term, may result in the integration of different sources of knowledge, also known as a melting of horizons. The characteristics of this process require further exploration.

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None

#### **Competing Interests**

None

#### **Contributorship**

MW, JK and TA conceived the idea of the study and were responsible for the design of the study. MW carried out the document analysis and all interviews. MW and MK were responsible for the coding of the interview transcripts. All authors provided input into the phase of cross-code checking and data analysis. The initial draft of the manuscript was prepared by MW and then circulated repeatedly among all authors for critical revision. All authors read and approved the final manuscript.

#### **Data sharing**

No additional data are available.



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Table 1 Characteristics of interviewees

	Professionals	Patient Research Partners	Interview Code
Sex (M:F)	12 : 4	7 : 9	
Professional background or Diagnosis	10 practicing rheumatologists 3 full time researchers 3 other professionals	10 rheumatoid arthritis 2 vasculitis 2 ankylosing spondylitis 1 fibromyalgia 1 gout	
Number of OMERACT conferences attended			
1	5	8	PA to PF, PO, PP
2	0	3	PG to PN
3	1	1	
4	4	4	
≥5	6	0	
Interview in relation to OMERACT conference			
Before	2	1	
During	8	16	
After	6	5	
Geographical spread	6 countries 2 continents	7 countries 4 continents	
Research	10 Senior Researchers		RA to RG, RJ, RK,

Background	1 Research Fellow	RY
	1 Post-doctoral researcher	RH
	2 Pharma representatives	RI
	2 Staff members	DA, DD
		DB, DC

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**Table 2****Facilitating and inhibiting factors for structural involvement of patients**

Facilitating factors	Inhibiting factors
<b>Strong leadership</b> <ul style="list-style-type: none"> <li>• Endorsement by key opinion leaders</li> <li>• Long-term financial and organizational commitment</li> <li>• Ambassadors of participative research</li> <li>• Acknowledgement of contributions</li> </ul>	<b>Intensity of the programme</b> <ul style="list-style-type: none"> <li>• Physically challenging</li> <li>• Intercontinental travel</li> <li>• Accessibility</li> <li>• Mentally challenging</li> <li>• Language &amp; terminology</li> <li>• Remote themes</li> </ul>
<b>Selection procedure</b> <ul style="list-style-type: none"> <li>• Recruitment through clinicians</li> <li>• Proportional representation</li> <li>• Selection criteria</li> <li>• Learning curve</li> </ul>	<b>Scepticism</b> <ul style="list-style-type: none"> <li>• Doubts about added value</li> <li>• Risk of tokenism</li> <li>• Imperceptibility of contributions</li> <li>• Lack of continuity</li> </ul>
<b>Conference design</b> <ul style="list-style-type: none"> <li>• Multi-stakeholder approach</li> <li>• Spirit of OMERACT</li> <li>• Full &amp; equal participation</li> <li>• Interactive breakouts</li> </ul>	<b>Composition patient group</b> <ul style="list-style-type: none"> <li>• Lack of representativeness</li> <li>• Pseudo-professionalism</li> </ul>

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- Structural involvement
- Facilitative moderation style**
- Open dialogue
  - Deliberate encouragement
  - Respect of confidentiality
  - Clear communication
  - Sensitivity to patient values
- Individualized support**
- Pre-conference information pack
  - Training
  - Personalized programmes
  - Buddy system
  - Glossary
  - Pre-conference involvement
-



**Table 3****Patient-reported barriers to collaboration and strategies to reduce these barriers**

Barriers to contribute identified by partners	Helpful tools, responses and points to consider to encourage partners to contribute
<b>Feeling like an observer in the conference, rather than a colleague</b> <ul style="list-style-type: none"> <li>• Not involved from the beginning</li> <li>• Lack of information</li> </ul>	<b>Involve partners right from the start</b> <ul style="list-style-type: none"> <li>• Provide background information in understandable language (research protocol)</li> <li>• Treat all team members equally</li> </ul>
<b>Inadequate introduction</b> <ul style="list-style-type: none"> <li>• Not knowing what is expected</li> <li>• Feeling not prepared for the job</li> <li>• Unaware of the aims of the conference</li> <li>• Why me?</li> </ul>	<b>Discuss mutual expectations in a face-to-face meeting before the start of the conference</b> <ul style="list-style-type: none"> <li>• What kind of contribution is expected from the partner?</li> <li>• Has the partner affinity with the research topic(s)?</li> <li>• In which phase or activities will the partner be involved?</li> <li>• Who takes the initiative for contact and how?</li> <li>• How will the partner be informed and supported along the way?</li> <li>• What are specific needs of the partner?</li> </ul>
<b>Doubts about their added value</b> <ul style="list-style-type: none"> <li>• Feeling too shy to relate personal stories</li> </ul>	<b>Encourage partners deliberately</b> <ul style="list-style-type: none"> <li>• Adapt to a patient-centred communication style and promote open dialogue, attentive listening and</li> </ul>

<ul style="list-style-type: none"><li>Assumption that experiences are obvious and already known to professionals</li><li>Low status of anecdotal knowledge</li></ul>	<ul style="list-style-type: none"><li>authentic contact</li><li>Invite partners to share their perspectives</li><li>Ask open-ended questions and probes</li><li>Give feedback on contributions</li><li>Emphasize the importance of personal experiences and provide reassurance</li></ul>
<b>Feeling unable to contribute</b> <ul style="list-style-type: none"><li>Lack of knowledge about research and statistics</li><li>Problem with medical jargon</li><li>Problem with the English language</li><li>Hierarchy of professions</li><li>Power imbalance</li></ul>	<b>Tailor support to the competencies of the partners</b> <ul style="list-style-type: none"><li>Provide lay summaries</li><li>Create a learning environment: provide training opportunities</li><li>Distribute reading materials before meetings</li><li>Explain jargon without being asked</li><li>Provide glossaries, journals and websites</li><li>Help partners access and judge scientific literature</li></ul>
<b>Feeling disqualified, not listened to</b> <ul style="list-style-type: none"><li>Feeling muddled about inappropriate disclosure</li><li>Feeling dismissed when an initiative to contribute is ignored</li></ul>	<b>Be alert for sensitive issues</b> <ul style="list-style-type: none"><li>Partners want to be regarded as individuals, from a holistic perspective</li><li>Try to be inclusive</li><li>Respect confidentiality and apply to ethical rules</li><li>Acknowledge contributions</li></ul>

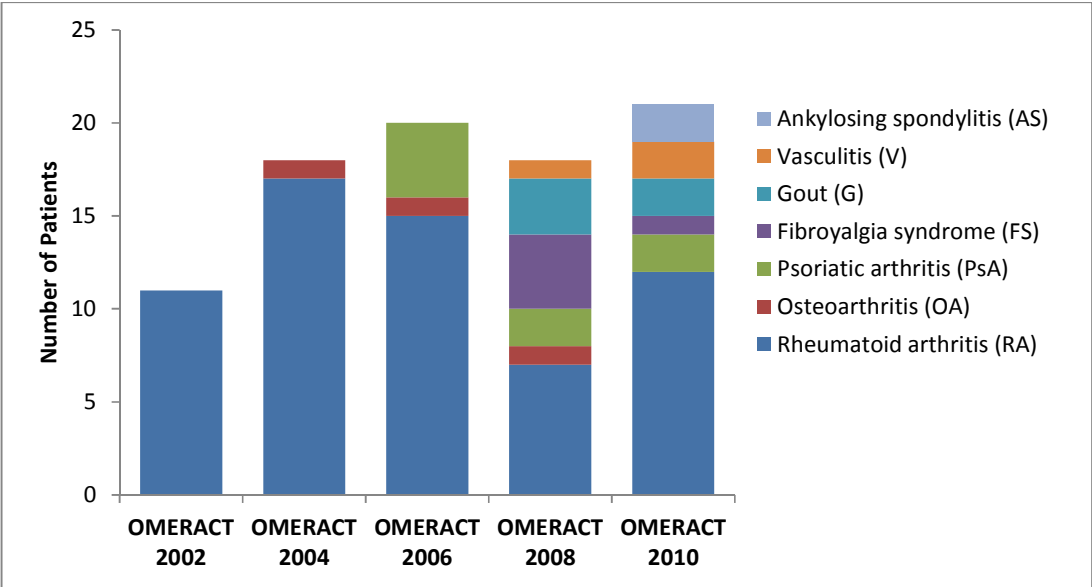
## Online Table 1

### Overview of tasks carried out by patient participants at OMERACT 6-10

- Act as co-chair of the patient participation workshop;
- Moderate break-out sessions
- Formulate questions for the workshop(s)
- Give a presentation at plenary sessions
- Weight different measures and domains
- Participate in different meetings as full delegates
- Provide input on pre- and post-conference documents
- Participate in workshops on fibromyalgia, gout, psoriatic arthritis, RA, AS and vasculitis
- Edit or contribute to the OMERACT patient newsletter
- Compile and edit the patient information pack and the OMERACT glossary
- Assist researchers to produce summaries suitable for lay participants
- Co-author scientific publications
- Promote topics from the research agenda on a national level
- Guide, support and inspire new patient research partners
- Disseminate the outcomes outside OMERACT.

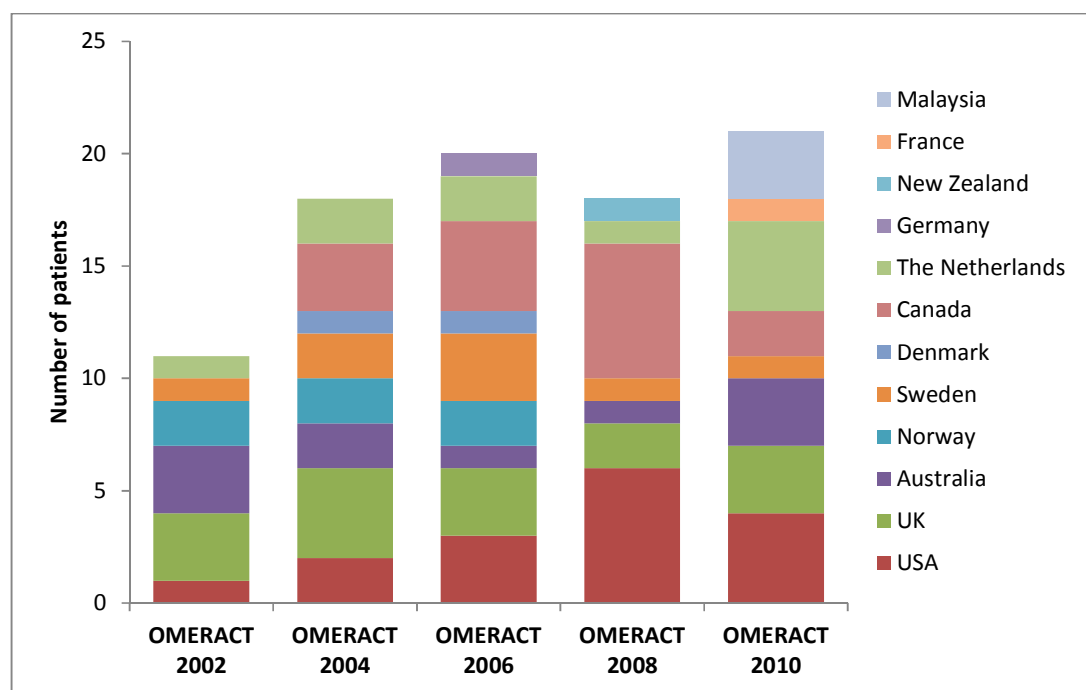
Online figure 1

Rheumatic conditions represented at OMERACT meetings between 2002-2010



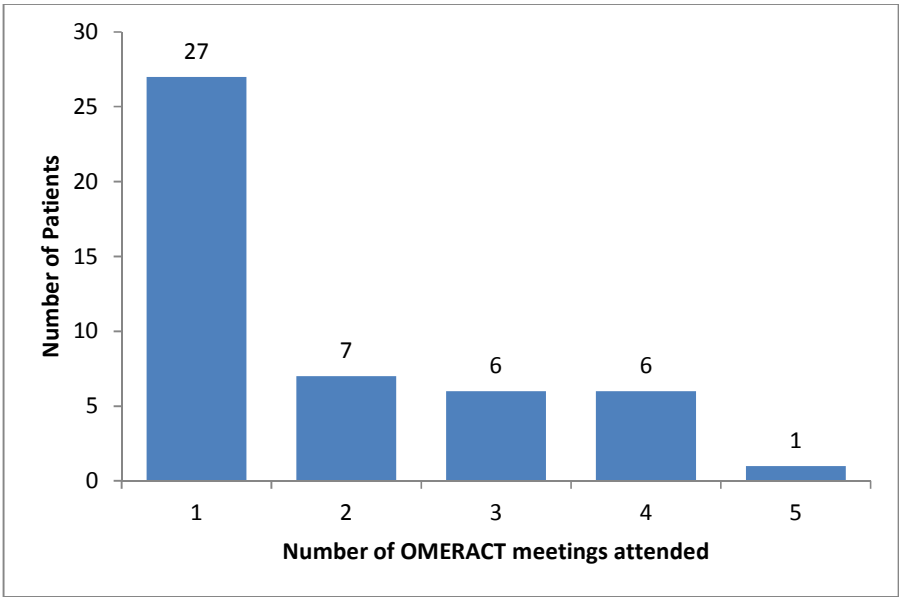
## Online figure 2

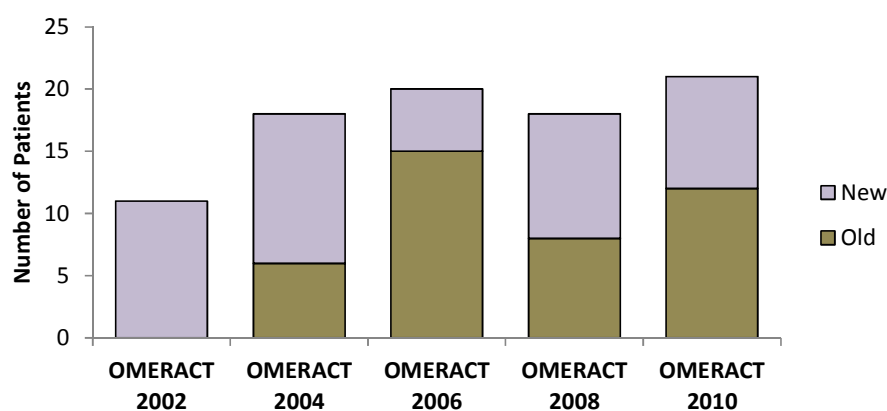
## Countries represented at OMERACT meetings between 2002-2010



Online Figure 3

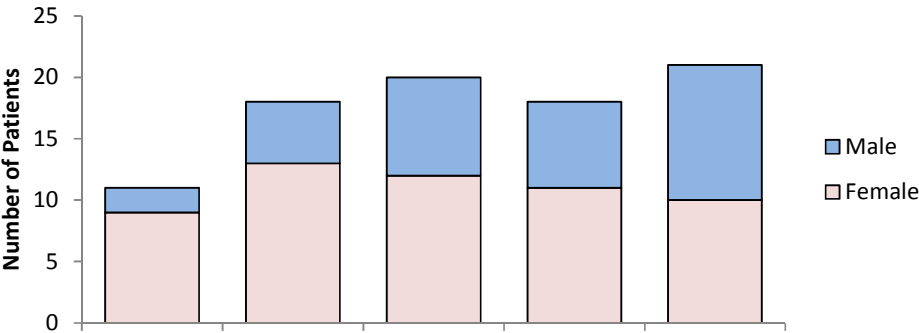
Number of times partners attended OMERACT between 2002-2010



**Online figure 4****Number of new versus experienced patient participants between 2002-2010**

Online figure 5

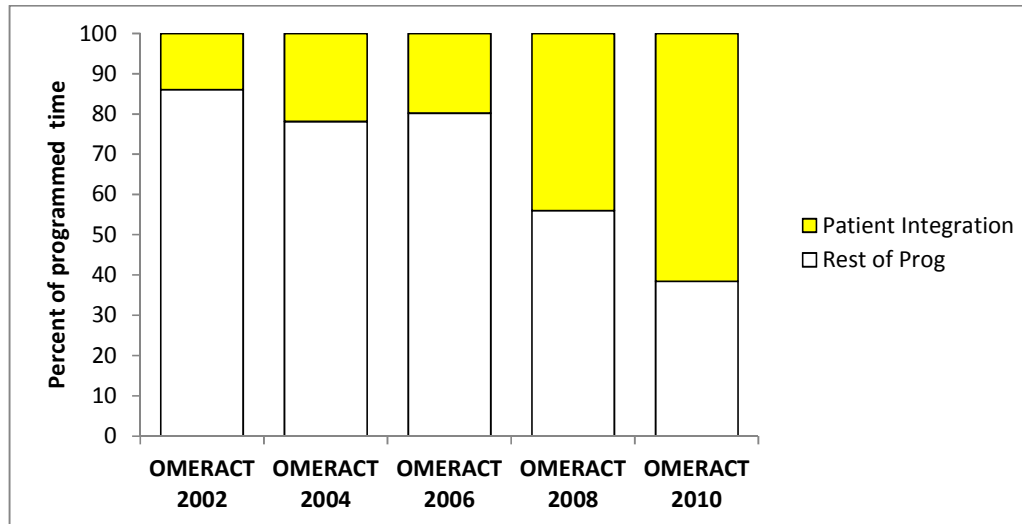
Gender of the 47 patient participants between 2002-2010





## Online figure 6

## Programmed patient integration at OMERACT meetings between 2002-2010



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**Appendix 1 Example of an audit trail:** Main categories (column 5) derived from the thematic content analysis, partly illustrated for the main categories ‘conference design’ and ‘skepticism’.

Text fragment	Open coding	Axial coding	Sub-categories	Main categories	
<ul style="list-style-type: none"><li>• “as soon as you invite a collaborator, you are on the same team” [RL]</li><li>• “I felt equal to all others and I was stimulated to participate” [RH]</li><li>• “as part of the team I was considered an equal co-researcher” [PG]</li><li>• “I don’t remember feeling us and them” [PM]</li></ul>	<ul style="list-style-type: none"><li>• Co-researcher</li><li>• Equality</li></ul>	<ul style="list-style-type: none"><li>• Participation ladder: partnership</li><li>• Co-creation</li><li>• Equality</li></ul>	<ul style="list-style-type: none"><li>• Multi-stakeholder approach</li><li>• Spirit of OMERACT</li><li>• <b>Full &amp; equal participation</b></li><li>• Interactive breakouts</li><li>• Structural involvement</li></ul>	<ul style="list-style-type: none"><li>STRONG LEADERSHIP</li><li>SELECTION PROCEDURE</li><li><b>CONFERENCE DESIGN</b></li><li>MODERATION STYLE</li><li>PEER SUPPORT</li></ul>	<b>FACILITATORS</b>
<ul style="list-style-type: none"><li>• “New stakeholders often don’t have knowledge about clinimetry” [RE]</li><li>• Clinicians who do not accept patients’ influence, are difficult to change [PI]</li><li>• “there is still an undercurrent that questions the issue of the added value of patient input” [PN]</li></ul>	<ul style="list-style-type: none"><li>• (low) expectations of patients’ contribution</li></ul>	<ul style="list-style-type: none"><li>• Resistance to change</li><li>• Perspective on potential contributions of patients</li></ul>	<ul style="list-style-type: none"><li>• Risk of tokenism</li><li>• <b>Doubts about added value</b></li><li>• Imperceptibility of contributions</li><li>• Lack of continuity</li></ul>	<ul style="list-style-type: none"><li>INTENSITY OF THE PROGRAM</li><li><b>SKEPTICISM</b></li><li>COMPOSITION PATIENT GROUP</li></ul>	<b>BARRIERS</b>

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