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CONCISE REPORT

Development of patient-centred standards of care for rheumatoid arthritis in Europe: the eumusc.net project

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ABSTRACT

Objective The eumusc.net project is a European Union (EU) commission and European League Against Rheumatism (EULAR) funded project that aims to facilitate equal standards for musculoskeletal health in all EU countries. One work-package was to develop evidence-based and patient-centred standards of care (SOC), for rheumatoid arthritis (RA) understandable for patients and professionals across Europe.

Method A review of documents covering clinical practice 'guidelines' and SOC for RA was conducted. The obtained documents were evaluated using the Appraisal of Guidelines for Research and Evaluation II (AGREE II) criteria, and all recommended methods to treat RA were extracted. Based on this information, a three-round Delphi exercise was performed including a consensus group meeting of 21 researchers and patient representatives.

Results 16 patient-centred SOC were formulated including a lay version in the format of a checklist. An example is SOC 3: 'People with RA should receive a treatment plan developed individually between them and their clinician at each visit.' The corresponding checklist question reads: 'Have I received a treatment plan which includes an explanation of my management, expected goals and outcomes and important contact details?'

Conclusions The SOC for RA will be available in all 23 official European languages and contribute to more unified treatment approaches in Europe.

INTRODUCTION

Rheumatoid Arthritis (RA) is a chronic inflammatory disease of unknown aetiology characterised by destructive synovitis¹, with a prevalence of 0.3–1%, and affecting women more frequently than men.² The prevalence varies among countries and regions of the world and appears to be higher in developed countries.^{2–3} The impact of RA on daily functioning, quality of life⁴ and on employment⁵ is immense. The main target of treatment is to control disease activity.⁶

In attempts to standardise the treatment of RA, clinical practice guidelines have been established in many countries^{7–19} which recommend pharmacological and non-pharmacological treatment, lifestyle advice and patient education. However, guidelines for RA differ considerably between countries.

It is unclear to which extent patients are informed about guidelines even though these primarily relate to their care. The work package 5 of the European Musculoskeletal Conditions Surveillance and Information Network (eumusc.net) assessed pertinent data and focused on the development of a set of recommendations for European Standards of Care (SOC) for people with RA based on existing guidelines. SOC define what services are expedient for people living with a certain condition. They describe management of a disease, care, access to patient information, support and knowledge that patients should have. Furthermore, they focus on structure (eg, availability of health professionals), process (eg, 3-monthly clinical assessments) and outcome (eg, assessment of disease activity). SOC are not guidelines or algorithms of care even if they refer to them²⁰; rather, they should be available to patients so they can become empowered to gain responsibility for their disease.

The present study analysed and compared guidelines for RA and, by means of Delphi technique, developed a patient-centred SOC acceptable across all European countries.

METHOD

A literature search including critical appraisal of national and international guidelines was conducted: subsequently, a consensus meeting followed to achieve expert consensus, employing a Delphi exercise.

Review of literature, critical appraisal and content analysis of RA guidelines

A systematic review was conducted in Pubmed, CINAHL and the internet (Google) between May 2010 and February 2011 with the following keywords including combinations thereof: clinical practice guideline, guideline, guidance, recommendation, standard of care, rheumatoid arthritis, and all names of European countries. Furthermore, the reference lists of the retrieved documents were reviewed and guideline registers were searched.

Additionally, national societies, health professional associations and patient leagues in the field of rheumatology in 44 European countries were contacted via email and were asked to provide potentially relevant, unpublished documents (see online

Table 1 Standards of Care (SOC)

	SOC for people with rheumatoid arthritis (RA)	Level of agreement
SOC 1	People with symptoms of RA should have timely access to a clinician/health professional competent in making a (differential) diagnosis (6 weeks according to European League Against Rheumatism (EULAR) recommendations).	9.9
SOC 2	People with RA should be given relevant information and education about <ul style="list-style-type: none"> ▶ their disease ▶ its management ▶ and all aspects of living with and managing their RA, in written form and in a format suited and tailored to the individual, in a timely fashion appropriate to their needs. 	9.7
SOC 3	People with RA should receive a treatment plan developed individually between them and their clinician at each visit.	9.2
SOC 4	At the start of any disease-specific treatment, people with RA should be fully educated about the expected benefits and any potential risks, and fully evaluated to assess both clinical status and safety aspects.	9.6
SOC 5	People with RA should be fully assessed for symptoms, disease activity, damage, comorbidity (including assessment for cardiovascular disease risk factors) and function at diagnosis; these assessments should also be done annually; if disease is not within target, clinical assessment should be done at least 3-monthly (all clinical variables) and possibly more frequently upon significant worsening.	9.5
SOC 6	People with RA should have rapid access to care when they experience significant worsening of the disease.	9.7
SOC 7	People with RA should be treated with a disease modifying anti-rheumatic drug (DMARD) as soon as the diagnosis is made.	9.7
SOC 8	If the target of low disease activity or remission is not achieved using a synthetic DMARD (usually being methotrexate), treatment should be reevaluated at least every 3 months.	9.4
SOC 9	People with RA should be evaluated for pain, and relief of pain associated with RA should be considered.	9.3
SOC 10	People with RA who have residual joint problems despite state-of-art pharmacological (including intra-articular) and non-pharmacological therapy should be assessed by an orthopaedic surgeon within 3 months from recognition of the refractoriness of the problem, especially if there is joint damage/soft tissue problems that might likely be solved by protective or reconstructive surgery.	8.7
SOC 11	People with RA should have access to evidence-based pharmacological and non-pharmacological treatment.	9.7
SOC 12	People with RA should have access to a specialised health professional to receive assessment, advice and training in all matters related to their disease.	9.4
SOC 13	People with RA should understand the benefit of exercises and physical activity and should be advised to exercise appropriately.	9.5
SOC 14	People with RA should receive information, advice and training on joint protection and ergonomic principles as well as activity-based methods to enhance functioning in daily life and participation in social roles. They should receive information, advice and training on splints, aids, devices and other products for environmental adaptations.	9.3
SOC 15	People with RA should receive information and advice about <ul style="list-style-type: none"> ▶ a healthy lifestyle (such as discontinuation of all types of tobacco use, balanced use of alcohol, physical activity, healthy diet, management of sleep disturbance if necessary) ▶ prevention of accidents and injuries, ▶ support groups and patient organisations, ▶ when to think about surgery and ▶ additional treatment options provided that some people might find useful. 	9.3
SOC 16	People with RA who wish to try alternative therapies that some people found symptomatically beneficial, should be informed about the limited evidence.	8.9

These SOC should be a minimum standard for all European countries and should be implemented as soon as possible, but not later than by 2020.

Of the 37 SOC, 21 were excluded because 3 or more experts rated them as not necessary in the third Delphi round. This led to the 16 SOC in the final version. 23 (89%) participants scored the level of agreement (8.7–9.9).

supplementary table S1). Inclusion criteria for guidelines were as follows: released after January 2002, dealing with the treatment of RA, denoting themselves as a guideline or recommendation with a full text (translation) available in English or German. If more than one version existed, the latest one was included.

The obtained guidelines were appraised based on the Appraisal of Guidelines for Research and Evaluation (AGREE II) instrument to assess their methodological quality.²¹ In order to focus on guidelines with high quality, only documents that received a score between four and seven in the overall assessment were included in the present analysis (see online supplementary figure S1). In the next step, all mentioned interventions for the treatment of RA were extracted. These interventions were linked to the other specifications given in the guidelines, for example, time, intensity and frequency. Based on this information, recommendations were formulated in the form of short sentences.

Delphi exercise

In the first Delphi round, the interventions were prioritised, clustered and a wording was proposed by a group of 21 experts

including four patient research partners. Experts were rheumatologists, rheumatology health professionals and rehabilitation specialists with long-term experience in clinical and/or scientific work.

After a one-day, face-to-face, meeting in Vienna, a set of recommendations was drafted and distributed via email, to all participants for comments. The comments received were built into the second draft, which was again circulated electronically; in the second Delphi round, the participants were asked to agree or disagree with the proposed items. In case of disagreement, a suggestion of an alternative wording should be proposed. Based on this input, a third draft was circulated, the third Delphi round, in which the experts received a feedback about the revisions of the SOC. Following the approach of Freil *et al*,²² the participants were asked to score each SOC using a scale of 1–3 as follows: 1=A ‘must have’ for the final set of SOC; 2=‘Would be nice to have in the final set of SOC’; 3=‘Is not important’. In a final voting, the level of agreement was obtained by asking each panel member to score each SOC on a scale from 0 to 10, 0 indicated ‘I totally disagree’ and 10 ‘I agree completely’.

RESULTS

The review of literature yielded 91,247 citations: (Pubmed n=89,324, CINAHL n=1,759, the first 150 Google hits and 14 hits in guideline registers). The titles and/or abstracts were screened and duplicates excluded; 95 documents were obtained in their full version; 87 national scientific societies, social leagues and health professional associations in 44 countries were asked to provide relevant documents. We received 104 documents with a response rate of 63% to our request (after three personal reminder emails were sent if no response had been received); 14 of these^{6–19} fulfilled the inclusion criteria and were used for further analysis. Out of all included documents, 49 interventions were extracted. For the Delphi exercise, 24 institutions were informed about the study. Thereof, 15 agreed to participate. Each institution nominated up to two experts for the working group. A total of 26 panel members from 10 countries (as listed in online supplementary appendix A) participated in this activity, including four patient research partners.

Results Delphi round 1

Twenty-one experts participated in the face-to-face meeting (Vienna 22-02-2012). During the meeting, the 49 interventions were sorted into the following six groups: 1) pharmacological treatment, 2) monitoring, 3) lifestyle interventions, 4) surgery, 5) education/information and 6) non-pharmacological treatment. This resulted in a draft version of 56 proposed items.

Results round 2

In the second round, 21 (81%) experts provided 250 comments on the draft version of 56 SOC. The first author modified and

reorganised the individual bullet points according to the comments. This process reduced the number of statements to 37.

Results round 3

In the third round, 23 (89%) experts contributed a total number of 202 comments and 21 (81%) rated the importance of each SOC.

Based on the final 16 SOC (table 1), a corresponding checklist worded in a way that could be understood by lay people was formulated (table 2).

DISCUSSION

To our knowledge, this is the first study developing common European SOC for RA, focusing on a lay version in the format of a checklist. A well-known barrier to the widespread implementation of guidelines and standards in healthcare is the scarcity of high-quality documents in languages other than English.²³ Providing translations of evidence-based information in all European languages could be a low-cost intervention with potential remarkable impact. Therefore, our document is translated into all European Union (EU) languages to facilitate implementation throughout Europe.

One important aim of the project is to provide tools to reduce inequalities in Europe through spreading evidence-based information in a way that could be understood by lay people as patients usually are.

The greatest challenge in this work on European SOC was to agree on the wording that was most appropriate and applicable for all European countries. Among these challenges is the fact that therapeutic interventions in RA are carried out by different

Table 2 Checklist

What this means for you and your rheumatoid arthritis (RA)...

- 1 Was my RA diagnosed by a specialised health professional within 6 weeks of onset of symptoms?
- 2 Do I understand my disease, my role in its management and the role of health professionals?
Have I been given information in different formats and/or education about my disease?
Have I been given information and/or education about treatments, their benefits and risks?
Have I been given information and education relevant to my needs, that is, what to do if my disease is worsening, in case of pain and adverse reactions on drugs?
Have I been given information about, and given contact details of, relevant patient charities and organisations which are considered to be trusted sources of evidence-based information?
- 3 Have I received a treatment plan which includes an explanation of my management, expected goals and outcomes and important contact details?
- 4 Was I informed about expected benefits and potential risks of treatment?
Was I assessed for clinical status and safety before the treatment was started?
Was I informed about vaccinations?
- 5 Have I received a schedule of regular assessments of my disease—the symptoms, disease activity and of what I can do?
- 6 Have I been informed when, how and who I can contact in case my disease is worsening?
- 7 Am I receiving a disease modifying anti-rheumatic drug, and if not, do I understand why not?
- 8 If my target of low disease activity or remission is not achieved, is my treatment reappraised at least every 3 months?
- 9 Do I know how to control pain associated with my RA?
- 10 Have I been informed about the options of surgery, and have the benefits and risks been explained?
- 11 Do I have access to pharmacological and non-pharmacological treatments according to my needs?
- 12 Do I have the opportunity to receive support if needed from health professionals, such as rheumatologist, dietician, general practitioner, nurse, occupational therapist, physiotherapist, psychologist and social worker?
Have I been offered information about how, why and when to contact different members of the multidisciplinary team as soon as possible after my diagnosis was made?
- 13 Have I been informed about physical activity and exercises specific for me?
- 14 Have I received information and, if necessary, advice and training on aids, devices and ergonomic principles to enhance function in daily life and participation in social roles?
- 15 Have I been informed about a healthy lifestyle?
- 16 Have I been informed about alternative therapies and the current (limited) evidence available to make an informed treatment decision?

This checklist was developed by patient research partners in collaboration with the whole working group. The patient research partners have been recruited through patient leagues participating in this work package.

We suggest this checklist should be available for all patients, throughout Europe but should particularly be a source for active and interested patients. The checklist should enable patients in Europe to follow the adherence to the recommended standards of care of their RA.

health professionals in different European countries and, indeed, certain health professionals, for example, specialised rheumatology nurses exist in only a minority of European countries. Another challenge in the course of the formulation of the SOC was finding the appropriate terms that would provide enough information without being too constraining.

Our study has several limitations. First, we restricted the guidelines solicited to those available in English or German versions; second, the number of patient research partners was not very large and third, we did not perform empirical testing to be informed about the applicability of the SOC. Furthermore, we did not re-examine the evidence base of the guidelines. Nevertheless, this activity allowed us to bring the currently available documents together in an attempt at unification. The extent of implementation should be subject to future studies.

Based on the SOC, quality indicators have been developed in another work package.²⁴

The standards will be available on the website (<http://www.eumusc.net>) of the project with the possibility to provide comments. These comments will be considered for a potential update of the document that will be developed if the evidence base has changed substantially and modifications become necessary.

In summary, this work provides a set of evidence-based SOC for the treatment of RA in all languages of the European Union, to be applied by healthcare providers; in particular, these SOC can be understood by patients, and their dissemination will, hopefully, lead to identical treatment approaches across European countries.

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Contributors All persons contributing to this work are listed in online supplementary appendix A, "Expert Panel".

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Competing interests AnB has received research grants from AbbVie, Merck, Amgen and an educational grant from Pfizer; none of them relates to this work. IFP has received speaker fees from AbbVie, Pfizer and UCB. JS has received honoraria from AbbVie, Amgen, BMS, Wyeth, Jansen, Roche, Schering-Plough and Sanofi-Aventis. TS has received speaker fees from UCB, AbbVie and MSD. MS has received speaker fees from MSD.

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Appendix A

Expert Panel			
Name	Country	Organisation	Profession
Ales Ambrozic	Slovenia	University Medical Centre Ljubljana	Rheumatologist
Florian Berghea	Romania	Universitatea de Medicina si Farmacie Carol Davila	Rheumatologist
Annelies Boonen	Netherlands	Maastricht University Medical Center	Rheumatologist
Ailsa Bosworth	UK	National Rheumatoid Arthritis Society	Patient Research Partner
Loreto Carmona	Spain	Instituto de Salud Musculoesqueletica	Rheumatologist & Epidemiologist
Maxime Dougados	France	EULAR & Association de recherche clinique en rhumatologie ARCR	Rheumatologist
Maarten De Wit	Netherlands	Reumapatientenbond	Patient Research Partner
Josephine Erwin	UK	Royal Cornwall Hospital	Social and Health Scientist
Veronika Fialka-Moser	Austria	Medizinische Universität Wien	Specialist in Physical Medicine & Rehabilitation
Ruxandra Ionescu	Romania	Universitatea de Medicina si Farmacie Carol Davila	Rheumatologist
Anne-Maree Keenan	UK	University of Leeds	Rheumatologist
Estibaliz Loza	Spain	Instituto de Salud Musculoesqueletica	Rheumatologist
Rikke Helene Moe	Norway	Diakonhjemmet Hospital	Physiotherapist & Health Scientist
Rolf Greif	Sweden	Rheumatikerförbundet, Swedish Rheumatism Association	Patient Research Partner
Pawel Olejnik	Poland	Instytut Reumatologii	Physician
Ingemar Petersson	Sweden	Lund University	Rheumatologist
Anne Christine Rat	France	Université de Lorraine, Université Paris Descartes	Rheumatologist
Blaz Rozman	Slovenia	University Medical Centre Ljubljana	Rheumatologist
Josef Smolen	Austria	Medizinische Universität Wien	Rheumatologist
Tanja Stamm	Austria	Medizinische Universität Wien	Occupational Therapist & Health Scientist
Michaela Stoffer	Austria	Medizinische Universität Wien	Occupational Therapist & Health Scientist
Britta Strömbeck	Sweden	Lund University	Physiotherapist & Health Scientist
Lorraine Tanner	UK	National Rheumatoid Arthritis Society	Patient Research Partner
Till Uhlig	Norway	Diakonhjemmet Hospital	Rheumatologist
Theodora P. M. Vliet Vlieland	Netherlands	Leiden University Medical Center	Physician & Physiotherapist & Health Scientist
Anthony Woolf	UK	Royal Cornwall Hospital	Rheumatologist

Figure S 1

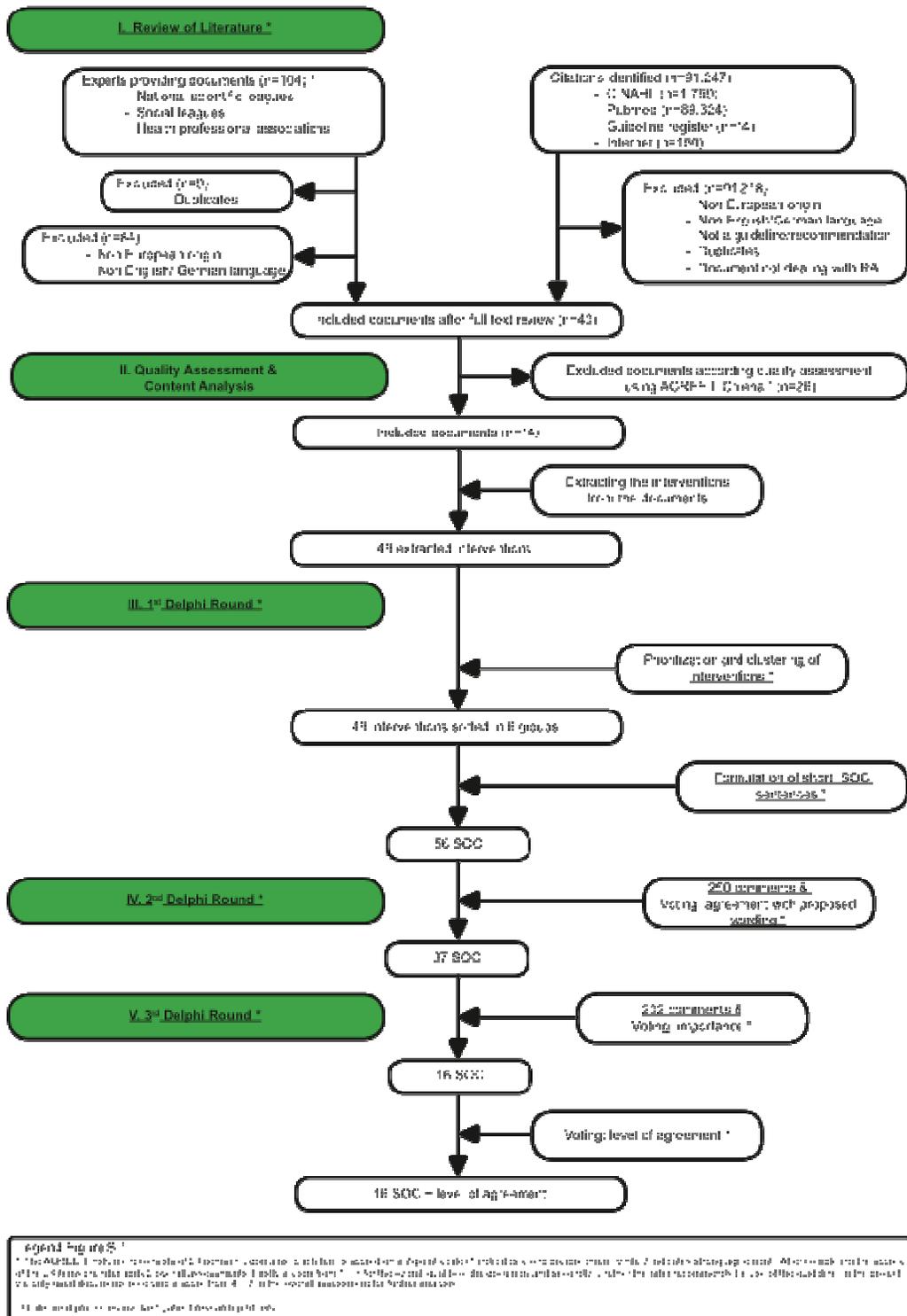


Table S1

Country	Response	Documents available
Albania		
Armenia	x	
Austria	x	x
Belarus		
Belgium		
Bosnia and Herzegovina	x	
Bulgaria		
Croatia	x	x
Cyprus	x	
Czech Republic	x	x
Denmark	x	x
Estonia	x	x
Finland	x	x
France	x	x
Georgia		
Germany	x	x
Greece		
Hungary	x	x
Iceland		
Ireland	x	x
Israel	x	x
Italy	x	x
Latvia	x	x
Lebanon		
Lithuania	x	x
Macedonia		
Malta	x	
Moldova	x	x
Montenegro	x	
Netherlands	x	x
Norway	x	
Poland		x
Portugal		x
Romania		x
Russian Federation	x	x
Serbia	x	x
Slovakia	x	x
Slovenia	x	
Spain	x	x
Sweden	x	x
Switzerland	x	x
Turkey	x	
Ukraine		
United Kingdom	x	x

Standards of care for people with rheumatoid arthritis

INTRODUCTION

Patients and experts have worked together to produce standards of care for people in Europe who have rheumatoid arthritis. They hope that this means everyone with rheumatoid arthritis will get the best possible treatment from their doctors, nurses, and healthcare services, no matter where they live.

WHAT DO WE KNOW ALREADY?

Most countries have their own guidelines or recommendations about how to treat various diseases and conditions. In England, Wales, and Northern Ireland, the National Institute for Health and Care Excellence (NICE) set guidelines for rheumatoid arthritis and other conditions. The Scottish Intercollegiate Guidelines Network (SIGN) set guidelines in Scotland, and there are also recommendations made by groups of specialist doctors, support groups, and charities.

Guidelines set out things such as the tests doctors should use to find out if a person has a particular condition, what treatments work best, and who should get which treatments. But spreading the recommendations in guidelines can take time. So people in different areas may still be treated differently. And, while guidelines are useful, they often don't say what kind of support people should get or what people with a particular condition should know about their care.

This report explains how rheumatology experts created a set of recommendations to support people with rheumatoid arthritis across Europe.

WHAT DOES THE NEW STUDY SAY?

An expert group of patients and doctors reviewed all the guidelines on rheumatoid arthritis from 44 European countries. They then agreed on 16 recommendations they considered most important for patients. These 'standards of care' set out exactly how people with rheumatoid arthritis can learn more about their condition, ways that they can care for themselves, and what to expect from healthcare services and healthcare professionals.

For example, everyone with rheumatoid arthritis should expect:

- ▶ Relevant information and education about living with their condition and taking care of themselves. People should ask for the information in whichever form is easiest for them – leaflets, recommended websites, or educational DVDs, for example.
- ▶ A treatment plan that explains what the goals of their treatment are, based on what they decided with their doctors.
- ▶ An explanation of the possible benefits and risks of the treatments that they are considering or that their doctors suggest.
- ▶ An assessment and a referral to a specialist if this is needed
- ▶ Information about whether complementary or alternative medicines work.

HOW RELIABLE ARE THE FINDINGS?

To create these standards of care, the expert group reviewed published guidelines on rheumatoid arthritis (although, for practical reasons, they could only review guidelines published in English or German) and examined the results of good-quality studies.

There were four patients included in the group that developed the standards of care, along with 17 specialist doctors and healthcare professionals. Other people with rheumatoid arthritis may find that different things are important to them or helpful for getting the most out of their care.

WHAT DOES THIS MEAN FOR ME?

If you have rheumatoid arthritis, these standards of care were created to help inform you about what good care looks like and what to expect from healthcare professionals. You may find the standards useful for starting a discussion about the best ways to manage your condition with your GP, specialist doctor, or nurse. The standards may also help you think about the kinds of questions you would like to ask. The full set of standards is available at www.eumusc.net.

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