Treating Rheumatoid Arthritis to Target: multinational recommendations assessment questionnaire

Boulos Haraoui,¹ Josef S Smolen,²,³ Daniel Aletaha,² Ferdinand C Breedveld,⁴ Gerd Burmester,⁵ Catalin Codreanu,⁶ José Pereira Da Silva,⁷ Maarten de Wit,⁸ Maxime Dougdos,⁹ Patrick Durez,¹⁰ Paul Emery,¹¹ João Eurico Fonseca,¹² Allan Gibofsky,¹³ Juan Gomez-Reino,¹⁴ Winfried Graninger,¹⁵ Vedat Hamuryudan,¹⁶ Maria José Jannaut Peña,¹⁷ Joachim Kalden,¹⁸ Tore K Kvien,¹⁹ Ieda Laurindo,²⁰ Emilio Martin-Mola,²¹ Carlomaurizio Montecucco,²² Pedro Santos Moreno,²³ Karel Pavelka,²⁴ Gyula Poor,²⁵ Mario H Cardiel,²⁶ Ewa Stanislawksa-Biernat,²⁷ Tsutomu Takeuchi,²⁸ Désirée van der Heijde²⁸; the Treat to Target Taskforce

ABSTRACT

Aim To measure the level of agreement and application of 10 international recommendations for treating rheumatoid arthritis (RA) to a target of remission/low disease activity.

Methods A 10-point Likert scale (1 = fully disagree, 10 = fully agree) measured the level of agreement with each of 10 recommendations. A 4-point Likert scale (never, not very often, very often, always) assessed the degree to which each recommendation was being applied in current daily practice. If respondents answered ‘never’ or ‘not very often’, they were asked whether they would change their practice according to the particular recommendation.

Results A total of 1901 physicians representing 34 countries participated. Both agreement with and application of recommendations was high. With regard to application of recommendations in daily practice, the majority of responses were ‘always’ and ‘very often’. A significant percentage of participants who were currently not applying these recommendations in clinical practice were willing to change their practice according to the recommendations.

Conclusion The results of this survey demonstrated great support of ‘Treating RA to Target’ recommendations among the international rheumatology community. Additional efforts may be needed to encourage application of the recommendations among certain clinicians who are resistant to changing their practice.

INTRODUCTION

Treating to therapeutic targets has become a standard of care for many chronic conditions.¹–⁴ In order to set similar standards for rheumatoid arthritis (RA), an international task force was established consisting of 68 rheumatologists and patients with RA from 25 countries.⁵ The first phase of this Treat to Target (T2T) initiative focused on defining therapeutic targets and establishing paths to optimal outcomes. Based on a systematic literature review⁶ and expert opinion, a consensus on a set of 10 recommendations was formulated (see appendix 1 in online supplement).⁷ The goal of these recommendations is to provide rheumatologists, patients and other stakeholders with clear approaches as to how to reach the set targets and provide patients with RA with the best quality of care available.

The second phase of the T2T initiative aims at acceptance and implementation of these recommendations in daily rheumatology practice. It was deemed important to learn to what extent individual components of the T2T recommendations are accepted (or acceptable) by rheumatologists of individual countries. Here we provide the results from an international survey of rheumatologists performed to this end.

The objectives of the survey were: (1) to evaluate the level of agreement with T2T recommendations on a global scale; (2) to determine whether and to what degree these recommendations were currently applied in daily practice; and (3) to assess the willingness of those clinicians not already applying these recommendations to modify their practice.

METHODS

Recruitment was determined by the steering committees of individual countries. Rheumatologists were contacted by email or fax and asked to anonymously complete a paper- or web-based questionnaire. The first part of the questionnaire gathered demographic information. A 10-point Likert scale (1 = fully disagree, 10 = fully agree) measured the level of agreement with each of the 10 recommendations. The degree to which each recommendation was being applied in current daily practice was assessed on a 4-point Likert scale (never, not very often, very often, always). Those who answered that they have ‘never’ or ‘not very often’ applied a specific recommendation in their practice were asked whether they would change their practice according to the particular recommendation. Data are presented using standard summary statistics including analysis of variance and χ² analysis.

RESULTS

Demographic data

A total of 1901 rheumatologists participated, representing 34 countries, nine from Western Europe (n=722, 38%), nine from Eastern Europe (n=403, 21%), six from Latin America (n=456, 23%), Australia, Canada and New Zealand (n=107, 6%), and ...
Japan and Korea (n=156, 8%) and five from the Middle East (n=75, 4%). The response rates were highly variable between the countries and dependent on the means of survey distribution. For example, in Japan where 131 university-based rheumatologists were contacted, the response rate was 100%. In contrast, in countries such as Italy where potential participants were selected and contacted using national directories, the response rates were significantly lower at approximately 3%.

Practices in university hospitals, general hospitals and private clinics were represented with 41%, 33% and 18% of respondents, respectively. The mean number of participants’ years in practice was 17.4 (range 3 months to 52 years). The average number of patients with RA seen per month was 81 (range 1 to 600).

Agreement with the recommendations

Agreement with T2T recommendations was very high, with each of the 10 recommendations receiving a score of >8.0 (figure 1). Recommendations 1 and 10 received the highest agreement scores (9.2 and 9.3, respectively). The level of agreement with these two recommendations was relatively high (>8) across all countries and regions. Recommendations 5 and 3 received the lowest overall agreement scores (8.5 and 8.6, respectively).

The largest variations in agreement scores between countries were noted for recommendations 5 and 6, with scores ranging from 9.6 to 6.9 for both. The agreement with recommendations 5 (7.1), 6 (7.4) and 8 (7.6) was significantly lower for the Canada–New Zealand–Australia group than for any other region.

Application of T2T recommendations to daily practice

The majority of responses were ‘always’ and ‘very often’, ranging from 97.7% for recommendation 2 to 87.3% for recommendation 5 (figure 2). Recommendations 5 (regular documentation of disease activity) and 6 (use of composite activity measures that include joint counts) received the highest number of ‘never’ or ‘not very often’ responses (12.7% and 10.0% for recommendations 5 and 6, respectively).

For recommendation 5, $\chi^2$ analysis indicated that, based on the null hypothesis (ie, no difference between groups), the Canada–New Zealand–Australia group had more than expected ‘never’ and ‘not very often’ responses (32.7%, p<0.0001). For recommendation 6, participating rheumatologists from the Middle East also showed a relatively low level of application in daily practice (27.78% indicating ‘never’ or ‘not very often’, p=0.0001). Middle Eastern countries had more than expected ‘never’ or ‘not very often’ responses for recommendations 7 (18.6%, p<0.0001) and 9 (13.9%, p=0.0012).

Subgroup analysis revealed no statistically significant differences in acceptance or application of T2T recommendations between rheumatologists in academic institutions and those in community clinics (data not shown). For both academic and community practice-based participants, the level of agreement was highest for recommendation 10 (9.2) and lowest for recommendation 5 (8.4 for academic and 8.5 for community-based participants). In addition, the results did not change significantly when clinicians who see <30 patients/month (n=522) were excluded from the analysis. The agreement with recommendations 10 and 5 were 9.3 and 8.5, respectively.

Willingness to change practice according to the recommendations

A significant proportion of responders who were currently not applying T2T recommendations were willing to change their practice according to the recommendations (figure 3). However, 43.1% and 32.8% of participants who were currently not applying recommendations 5 and 6, respectively, indicated that they were unwilling to change their practice to accommodate these recommendations. Furthermore, although only 6.7% and 6.5% of participants indicated that they were not applying T2T recommendations 3 and 4, respectively, a high percentage of these (30.5% for recommendation 3 and 45.4% for recommendation 4) indicated that they were unwilling to change their practice to accommodate these recommendations.

Although there were no clear regional differences in terms of willingness to change practice for recommendations 3, 5, 8, 9 and 10, the Canada–New Zealand–Australia group showed greater than expected ‘not willing to change practice’ responses for recommendations 1 (p<0.05), 2 (p<0.05), 4 (p<0.0001), 6 (p<0.0001) and 7 (p=0.0017).
Two elements of the T2T recommendations received the most objections: recommended frequency of monitoring and the use of validated composite measures of disease activity in routine clinical practice to guide treatment decisions. While certain logistical aspects of clinical practice (ie, high patient volume, lack of support, etc) may influence clinicians’ attitudes towards these two aspects of the T2T recommendations, some participants also commented that a tight monitoring schedule is not necessary as long as the patient is showing improvement (data not shown). These attitudes may inadvertently undermine the quest for remission as a treatment goal, since remission is defined using various individual measures or indices. Thus, efforts should be deployed to help clinicians integrate these validated tools into their routine clinical practice, especially since simple tools like the Simplified Disease Activity Index and Clinical Disease Activity Index are available, which can also be used to define remission according to the American College of Rheumatology (ACR) and European League against Rheumatism (EULAR).7

In this regard, it is interesting to note that recommendation 3 received one of the lowest mean scores, which is somewhat at odds with most strategic trials which aimed for low disease activity.6 8 9 One possible explanation is that clinicians strive towards remission, and low disease activity is a second-best outcome.

The data collected from this questionnaire should be interpreted in the context of the survey sample and data collection methodology. One limitation was that the method of survey dissemination was determined by the steering committees of individual countries and was not standardised. It is therefore difficult to ascertain the precise number of rheumatologists from each country who received the survey and consequently the response rates. It is also important to recognise that a selection bias towards rheumatologists more positive towards the T2T recommendations is possible, and responses might not be representative of the global rheumatology community. Finally, determination whether and to what extent these recommendations are currently applied in daily practice might not be accurately assessed with the chosen methodology; practice audits such as
the Assessment in Rheumatology (AIR) project are better suited to answer the question. The survey nonetheless identified resistance towards certain aspects of the recommendations and the results can serve as a preliminary guide for future global, national and regional programmes.

These survey results may contribute to: (1) increasing awareness of the T2T concept which is being recommended and advocated by the main organisations EULAR, ACR and several national societies; (2) identifying specific local issues that need to be addressed in order to advance patient care; (3) demonstrating to non-responders to the survey, regardless of the reason for lack of participation, where they stand in comparison to their peers; and (4) focusing on the identification of the specific national basis for the disagreement with certain aspects of the T2T recommendations by steering committees from individual countries and the development of programmes that could address them in a manner that best fits local practices.

Author affiliations

1 Institut de rhumatologie de Montreal, Montreal, Quebec, Canada
2 Department of Internal Medicine 3, Division of Rheumatology, Medical University of Vienna, Vienna, Austria
3 2nd Department of Medicine, Center for Rheumatic Diseases, Hietzing Hospital, Vienna, Austria
4 Leiden University Medical Center, Leiden, The Netherlands
5 Rheumatology and Clinical Immunology, Charité University Hospital, Berlin, Germany
6 Center of Rheumatic Diseases, Bucharest, Romania
7 Reumatologia, Hospitais da Universidade, Coimbra, Portugal
8 Department of Medical Humanities, VU Medical Centre, Amsterdam, The Netherlands
9 Department of Rheumatology B, Cochin Hospital, René Descartes University, Paris, France
10 Cliniques Universitaires Saint-Luc, Brussels, Belgium
11 Academic Unit of Musculoskeletal Disease, University of Leeds, Leeds, UK
12 Instituto de Medicina Molecular and Rheumatology and Bone Metabolic Diseases
13 Department of Internal Medicine 3, Division of Rheumatology, Medical University of Vienna, Vienna, Austria
14 Leiden University Medical Center, Leiden, The Netherlands
15 Northeast Clinical Immunology, Charité University Hospital, Berlin, Germany
16 Center of Rheumatic Diseases, Bucharest, Romania
17 Reumatologia, Hospitais da Universidade, Coimbra, Portugal
18 Instituto de Medicina Molecular and Rheumatology and Bone Metabolic Diseases
19 Academic Unit of Musculoskeletal Disease, University of Leeds, Leeds, UK
20 Institut de rhumatologie de Montreal, Montreal, Quebec, Canada
21 Department of Internal Medicine 3, Division of Rheumatology, Medical University of Vienna, Vienna, Austria
22 IRCCS Policlinico S Matteo, University of Pavia, Pavia, Italy
23 Hospital Militar Central, Universidad de la Sabana, Bogotá, Colombia
24 Diakonhjemmet Hospital, Oslo, Norway
25 National Institute of Rheumatology and Physiotherapy, Budapest, Hungary
26 Instituto de Medicina Molecular and Rheumatology and Bone Metabolic Diseases
27 Institute for Clinical Immunology, Erlangen, Germany
28 Medical University of Graz, Graz, Austria
29 Cerrahpasa Medical School, Istanbul University, Istanbul, Turkey
30 Universidad de la Sabana, Bogotá, Colombia
31 Institute for Clinical Immunology, Erlangen, Germany
32 Diakonhjemmet Hospital, Oslo, Norway
33 Division of Rheumatology, University of Sao Paulo, Sao Paulo, Brazil
34 Hospital Universitario La Paz, Madrid, Spain
35 IRCSS Policlinico S Matteo, University of Pavia, Pavia, Italy
36 Hospital Militar Central, Universidad de la Sabana, Bogotá, Colombia
37 Institute of Rheumatology and Clinic of Rheumatology, Charles University, Prague, Czech Republic
38 National Institute of Rheumatology and Physiotherapy, Budapest, Hungary
39 Hospital General ‘Dr Miguel Silva’, Morelia, Mich, Mexico
40 Institute of Rheumatology, Warsaw, Poland
41 Keio University School of Medicine, Tokyo, Japan

Treat to Target Taskforce

Adel Al Awadhi, Kuwait University, Kuwait City, Kuwait; Waleed Yousef AlShehhi, Al Bira Arthritis and Bone Clinic, Dubai, United Arab Emirates; Dursa Babic-Naglic, Clinic for Rheumatic Diseases and Rehabilitation, Zagreb, Croatia; Beat A Michel, Division of Rheumatology, University Hospital Zurich, Zurich, Switzerland; Claudio Galarza-Maldonado, Hospital Monte Sina, Cuenca, Ecuador; Mohammad Hammoudah, Hamad Medical, Doha, Qatar; Michael Harrison, The University of Auckland School of Medicine, Auckland, New Zealand; Zlatimir Kolarov, Bulgarian Medical Society of Osteoporosis and Osteoarthrosis, Clinic of Rheumatology, Sofia, Bulgaria; Soo-Kon Lee, Yonsei University College of Medicine, Seoul, Korea; Peter Nash, Coast Joint Care Rheumatology Research Unit, Sunshine Coast, Australia; Kati Ottsa, East Tallinn Central Hospital, Tallinn, Estonia; Touliki Sokka, Jyväskylä Central Hospital, Jyväskylä, Finland; Guillermo A Tate, University of Buenos Aires, Buenos Aires, Argentina; Marja Tomsic, University Medical Centre Ljubljana, Ljubljana, Slovenia; Imam Uthman, American University of Beirut Medical Centre, Beirut, Lebanon; Algirdas Venalis, Institute of Experimental and Clinical Medicine at Vilnius University, Vilnius, Lithuania, Sol Villegas de Morales, Vargas Hospital, Caracas, Venezuela.

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REFERENCES