

## CLINICAL SCIENCE

## EULAR recommendations for the reporting of ultrasound studies in rheumatic and musculoskeletal diseases (RMDs)

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Handling editor: Josef S Smolen

► Additional material is published online only. To view, please visit the journal online (<http://dx.doi.org/10.1136/annrheumdis-2020-219816>).

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Received 29 December 2020  
Revised 11 January 2021  
Accepted 12 January 2021



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**To cite:** Costantino F, Carmona L, Boers M, et al. Ann Rheum Dis Epub ahead of print. [please include Day Month Year]. doi:10.1136/annrheumdis-2020-219816

## ABSTRACT

**Objective** To produce European League Against Rheumatism (EULAR) recommendations for the reporting of ultrasound studies in rheumatic and musculoskeletal diseases (RMDs).

**Methods** Based on the literature reviews and expert opinion (through Delphi surveys), a taskforce of 23 members (12 experts in ultrasound in RMDs, 9 in methodology and biostatistics together with a patient research partner and a health professional in rheumatology) developed a checklist of items to be reported in every RMD study using ultrasound. This checklist was further refined by involving a panel of 79 external experts (musculoskeletal imaging experts, methodologists, journal editors), who evaluated its comprehensibility, feasibility and comprehensiveness. Agreement on each proposed item was assessed with an 11-point Likert scale, grading from 0 (total disagreement) to 10 (full agreement).

**Results** Two face-to-face meetings, as well as two Delphi rounds of voting, resulted in a final checklist of 23 items, including a glossary of terminology. Twenty-one of these were considered 'mandatory' items to be reported in every study (such as blinding, development of scoring systems, definition of target pathologies) and 2 'optional' to be reported only if applicable, such as possible confounding factors (ie, ambient conditions) or experience of the sonographers.

**Conclusion** An EULAR taskforce developed a checklist to ensure transparent and comprehensive reporting of aspects concerning research and procedures that need to be presented in studies using ultrasound in RMDs. This checklist, if widely adopted by authors and editors, will greatly improve the interpretability of study development and results, including the assessment of validity, generalisability and applicability.

Ultrasound is an imaging technique widely used in patients with rheumatic and musculoskeletal diseases (RMDs) to detect signs of inflammation and destructive changes.<sup>1</sup> Despite an increased use in clinical practice facilitated by major technical advances in the resolution of soft tissue contrast

## Key messages

## What is already known about this subject?

- Nomenclature, definitions of ultrasound-detected pathologies, scoring systems and technical issues may affect the validity and generalisability of results of ultrasound studies in rheumatic and musculoskeletal diseases.
- These aspects, along with critical design characteristics, are often suboptimally reported in current ultrasound studies.

## What does this study add?

- A 23-item recommendation checklist was developed by a European League Against Rheumatism taskforce to ensure transparent and comprehensive reporting of ultrasound research.
- This is the first reporting checklist focused on how to report characteristics of imaging measurement tools.

## How might this impact on clinical practice or future developments?

- The use of this checklist may improve the interpretability, reproducibility and generalisability of study results.

(B-mode or grey scale (GS)) and of vascular perfusion (Doppler techniques), a relatively long learning curve<sup>2</sup> and, until recently, the absence of agreed scoring systems have hampered its utilisation for research.<sup>1,4</sup>

The European League Against Rheumatism (EULAR) and the Outcome Measures in Rheumatology (OMERACT) Ultrasound Working Group have actively worked towards the standardisation of the technique by developing educational programmes and by performing several studies evaluating its reliability, validity and feasibility.<sup>1–6</sup> These initiatives have underlined that factors such as nomenclature, definitions of ultrasound-detected pathologies, scoring systems and technical issues

# Rheumatic And Musculoskeletal Diseases Eular

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Bookstaver**

## **Rheumatic And Musculoskeletal Diseases Eular:**

### Health disparities in rheumatic diseases: Part II, An Issue of Rheumatic Disease Clinics of North America, E-Book

Candace H Feldman,2020-11-20 This issue of Rheumatic Disease Clinics guest edited by Dr Candace Feldman is Part II of a two part issue covering Health Disparities in Rheumatic Diseases This issue is one of four selected each year by series Consulting Editor Dr Michael Weisman Topics discussed in this issue include but are not limited to Disparities in Lupus Care and Outcomes among U S Medicaid Beneficiaries Understanding Risk Factors for Poor Outcomes in a Multiethnic Longitudinal Cohort Impact of Psychosocial Factors on RA and Lupus Health Disparities Racial ethnic and geographic disparities in knee and hip osteoarthritis Racial ethnic Disparities in Osteoarthritis Management Challenges and Strategies to Achieve Equitable Rheumatologic Care Across the World Strategies to Reduce Disparities Understanding and Addressing the Provider Biases and the Lack of Diversity in Lupus Clinical Trials Community engaged Research Lupus Conversations Leveraging Telemedicine as an Approach to Address Rheumatic Disease Health Disparities and Understanding the Role and Challenges of Patient Preferences in Disparities in Rheumatic Disease Care *Chronic Autoimmune Arthritis, Infections and Vaccines* Andrea Picchianti-Diamanti,Emanuele Nicastri,Maria Manuela Rosado,Bruno Laganà,Michele Maria Luchetti Gentiloni,2022-11-28 *Imaging in Rheumatology, An Issue of Radiologic Clinics of North America, E-Book* Alberto Bazzocchi,Giuseppe Guglielmi,2024-07-29 In this issue of Radiologic Clinics guest editors Drs Alberto Bazzocchi and Giuseppe Guglielmi bring their considerable expertise to the topic of Imaging in Rheumatology Top experts provide a timely update on the most common rheumatic diseases and the imaging modalities used to diagnose them Individual articles on imaging modalities such as X ray MRI CT ultrasound whole body imaging and interventional radiology are featured Contains 14 relevant practice oriented topics including update on imaging of rheumatic diseases in clinical practice recent concepts and developments what is new in osteoarthritis imaging imaging in early rheumatic diseases how to recognize and to approach the differential diagnosis dual energy CT applications in rheumatology whole body imaging in rheumatology and more Provides in depth clinical reviews on imaging in rheumatology offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews *Rheumatology Secrets - E-BOOK* Jason Kolfenbach,Sterling G. West,2025-09-27 For more than 30 years the highly regarded Secrets Series has provided students and practitioners in all areas of health care with concise focused and engaging resources for quick reference and exam review Rheumatology Secrets 5th Edition offers practical up to date coverage of the full range of essential topics in this dynamic field This highly regarded resource features the Secrets popular question and answer format that also includes lists tables pearls memory aids and an easy to read style making inquiry reference and review quick easy and enjoyable The proven Secrets Series format gives you the most return for your time succinct easy to read engaging and

highly effective Fully revised and updated throughout offering practical coverage of basic immunology and pathophysiology important disease manifestations and clinical management issues related to common and uncommon rheumatic disorders including a new chapter on IgG4 related disease Keeps you up to date with new techniques and technologies as well as changing treatment options and drug information Helps ensure mastery of the material with more than 100 board style questions available online that provide effective review and quick practice for your exams Top 100 Secrets and Key Points boxes provide a fast overview of the secrets you must know for success in practice and on exams **Patient Reported**

**Outcome Measures in Rheumatic Diseases** Yasser El Miedany, 2016-09-14 This book discusses the role of patient reported outcome measures PROMs in the diagnosis and management of rheumatic diseases and their implementation in patient centered care It aims to improve the quality and efficiency of patient care in standard practice by outlining the appropriate information gathering and decision making processes The book highlights the evidence and advanced knowledge base of PROMs in rheumatic diseases such as rheumatoid arthritis systemic lupus erythematosus juvenile idiopathic arthritis osteoarthritis and systemic sclerosis Featuring reviews of Patient Reported Outcome tools and Physician RheuMetric Measures as well as examples of patient reported outcome questionnaires Patient Reported Outcome Measures in Rheumatic Diseases serves as an excellent introduction and resource for implementation of PROMs in clinical rheumatology practice

The ACR at 75 David S. Pisetsky, 2009 Covering all aspects of rheumatology the essays review such topics as

**L'actualité rhumatologique 2022-2023** Thomas Bardin, Martine Cohen-Solal, Philippe Dieudé, Thomas Funck-Brentano, Frédéric Lioté, Pascal Richette, 2022-11-22 Rhumatismes inflammatoires et maladies systémiques 1 Atteintes axiales du rhumatisme psoriasique 2 Actualité de la vaccination anti Covid 19 et rhumatismes inflammatoires 3 Actualité du traitement du lupus en 2022 4 Les traitements de fond des spondyloarthrites axiales ont ils un effet structural 5 Rémission dans la polyarthrite rhumatoïde de quelle descente Pathologies ostéoarticulaires neurologiques et vertébrales 6 Amylose transthyréosine 7 Faut il prescrire des orthèses dans la gonarthrose 8 Traitement microchirurgical de l'hallux 9 La pachydermie révisite le Métabolisme phosphocalcique et os 10 Le scanner révisite pour l'évaluation du risque fracturaire 11 Retentissement osseux de la chirurgie bariatrique 12 Le traitement la cible trait to target dans l'ostéoporose 13 Traitements quotidiens de l'ostéoporose Pathologies ostéoarticulaires activité physique et sport 14 Lésions musculaires intrinsèques du sportif du diagnostic au traitement Biologie anatomie physiopathologie moyens d'exploration 15 Alimentation et goutte 16 Je ne et inflammation 17 Imagerie de la chondrocalcinose le point 18 Microbiote et spondyloarthrite Thérapeutiques médicamenteuses et leurs complications 19 Tolérance des inhibiteurs de JAK dans des lieux en 2022 20 Insuffisance corticotrope postcortisonothérapie 21 Importance du dosage des anticorps antidépresseurs dans les rhumatismes inflammatoires 22 Actualités cardiologiques de la colchicine 23 Actualité des traitements des tendinopathies dégénératives de la coiffe des rotateurs de l'épaule 24 Traitements percutanés des fractures du sacrum 25 Blocage de l'IL 6 hors autorisation de mise sur le

march *Lifestyle Medicine* Jeffrey I. Mechanick, Robert F. Kushner, 2025-05-26 This book represents the third in a series of Springer textbooks on Lifestyle Medicine by Dr Mechanick and Dr Kushner The first book focused on theory and practice concepts The second book focused on implementation with a specific tactic of building a lifestyle medicine center This third book focuses on scientific evidence to close research gaps knowledge gaps and practice gaps The general intent is to imbue the field of lifestyle medicine with scientific evidence The other intent is to continue advancing a culture of preventive care for chronic disease using lifestyle medicine but again through a tactic of emphasizing science evidence and critical thinking Lifestyle Medicine Closing Research Practice and Knowledge Gaps is organized into three sections In the first section driver based chronic disease models and other elements that pertain to lifestyle medicine are explored in terms of current levels of scientific substantiation In the second section educational modalities are presented that can improve awareness of scientific and experiential knowledge by healthcare professionals Topics include innovative teaching models web based activities training and accreditation programs and certification exams In the third section a variety of clinical scenarios are presented to highlight practice gaps implementation issues where there is inadequate clinical action despite an awareness of the pertinent knowledge The topics span critical domains that must be addressed so that lifestyle medicine can lead to favorable outcomes in people and populations at risk These domains include alcohol and substance abuse colitis brain health environmental risk pharmacotherapy de escalation routine change socioeconomics transculturalization advanced analytics home cardiac rehabilitation digital twin technology and a highly referenced discussion of the lifestyle medicine ecosystem and infrastructure Care is taken to provide not only theoretical foundations but also case studies where appropriate to emphasize critical aspects In conclusion this third book on Lifestyle Medicine will complement the previous two Springer books and define a compendium of resources necessary for anyone interested in this field *Copeman's Textbook of the Rheumatic Diseases* William Sydney Charles Copeman, 1986 **Clinical Rheumatology** Rohini Handa, 2021-02-10 Clinical Rheumatology is a book written by a clinician for clinicians It covers all the essential clinical aspects of Rheumatology in an engaging clear and concise manner thereby fulfilling an unmet need The focus of this book is to cover clinically pertinent and practically relevant issues while pruning unnecessary detail Patient photographs tables and boxes enhance readability The bedside clinical and investigative approach is discussed in a lucid fashion illustrated by clinical photographs flowcharts and algorithms The evidence based treatment is spelt out in an easy to comprehend fashion Key messages have been listed at the beginning of each chapter The book is intended for undergraduate and postgraduate medical students residents fellows and clinicians who want to gain practical knowledge and clinical insight into rheumatic diseases The book is likely to appeal to internists rheumatologists physiatrists physiotherapists occupational therapists as well as orthopaedic surgeons They will find their day to day questions answered in a knowledge format that can be applied straight away Senior clinicians will find it a ready reckoner and a handy manual to refresh and update their knowledge Basic scientists will find it useful to gain clinical

insight into the rheumatic diseases they research without being intimidated by the size of the text Teachers will find it full of helpful teaching messages Clinical Rheumatology is a must have book for all those who deal with rheumatic musculoskeletal diseases **Nanotherapeutics for Inflammatory Arthritis** Vivek Mishra,Ramendra Pati Pandey,Anjali

Priyadarshini,Chung-Ming Chang,Elcio Leal,2024-08-01 **Nanotherapeutics for Inflammatory Arthritis** Design Diagnosis and Treatment highlights nanobiotechnology and its therapeutic applications in the field of inflammatory arthritis the interaction of nanomaterials in the biological systems and clinical development of nanomedicines It also covers the discovery of personalized therapeutics diagnostics and nanoparticulate delivery systems the role of bioinformatics nanobiotechnology in personalized oncology The use of nanosensors for the detection and current challenges in the development of personalized medicine is explained including recent nanotechnology based strategies Features Covers all the fundamental information about nanotechnology and inflammatory arthritis Highlights the interaction of nanomaterials in the biological systems and the clinical development of nanomedicines for inflammatory arthritis Explores the discovery of personalized therapeutics diagnostics and nanoparticle delivery systems Reviews the current challenges in the development of personalized medicine as well as translation of nanomedicine with combination therapy Discusses the toxicology of using nanomedicines and the risks associated with the use of these nanomedicines This book is aimed at researchers and professionals in nanotechnology biomaterial drug delivery and inflammatory arthritis [Immunogenetics in Rheumatology](#) R. L. Dawkins,1982

*Pharmacotherapy Principles and Practice, Sixth Edition* Marie A. Chisholm-Burns,Terry L. Schwinghammer,Patrick M. Malone,Jill M. Kolesar,Kelly C Lee,P. Brandon Bookstaver,2022-02-04 All the main concepts from the landmark Pharmacotherapy A Pathophysiologic Approach distilled down to a concise clinically focused full color resource Providing a solid evidence based approach Pharmacotherapy Principles Practice Sixth Edition explains how to design implement monitor and evaluate medication therapy You ll gain an in depth understanding of the underlying principles of the pharmacotherapy of disease and their practical application Pharmacotherapy Principles Practice includes chapters on geriatrics pediatrics and palliative care Each of the subsequent disease based chapters covers disease epidemiology etiology pathophysiology clinical presentation and diagnosis nonpharmacologic therapy followed by therapeutic recommendations for medication selection desired outcomes dosing and patient monitoring Features Chapters are written reviewed by pharmacists NPs PAs and physicians considered authorities in their fields Learning objectives with associated content identified with a margin rule Disorder based organization makes finding answers quick and easy Surveys the full range of organ system disorders treated in pharmacy practice Knowledge building boxed features within chapters cover Clinical Presentation Diagnosis Patient Encounters and Patient Care and Monitoring Guidelines Standardized chapter format Laboratory values are presented in conventional and System International units Key concepts are indicated in text with numbered icons Content on cultural competency Glossary Online Learning Center [The Journal of Rheumatology](#) ,2002 **Oxford Textbook of Medicine D**

J. Weatherall, 1996      **Clinical and Experimental Rheumatology**, 1998      *DiPiro's Pharmacotherapy: A Pathophysiologic Approach, 12th Edition* Joseph T. DiPiro, Gary C. Yee, Stuart T. Haines, Thomas D. Nolin, Vicki Ellingrod, L. Michael Posey, 2023-03-31 A Doody's Core Title for 2023 The #1 Textbook in Pharmacotherapy providing optimal patient outcomes using evidence-based medication therapies updated with the latest advances and guidelines For more than 30 years DiPiro's Pharmacotherapy has been the essential textbook for learning how to properly select administer and monitor drugs everything needed to provide safe effective drug therapy across all therapeutic categories This new edition has been fully updated with the latest evidence-based information and recommendations With content from 300 expert contributors this valuable resource offers detailed descriptions of common and uncommon disease states including treatment by pharmacologic and non-pharmacologic means Each disease chapter opens with a Patient Care Process helping readers understand the collaborative care model in which pharmacists work and communicate with other healthcare providers for effective coordinated care Here's why DiPiro's Pharmacotherapy: A Pathophysiologic Approach is the perfect learning tool for students pharmacists and other healthcare providers All chapters provide the most current reliable and relevant information available Key concepts are included at the beginning of each chapter Clinical Presentation boxes concisely outline disease signs and symptoms New Beyond the Book feature points readers to multimedia resources to deepen their understanding of the material Diagnostic flow diagrams treatment algorithms dosing guideline recommendations and monitoring approaches clearly distinguish treatment pathways New Drug monitoring tables have been added Patient care process boxes help readers know how to communicate with other health care providers New Additional FREE E-Books are available on AccessPharmacy New Over 2000 Review Questions to help prepare students      Bulletin on the Rheumatic Diseases, 1986  
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