

A brief Review of Rheumatoid Arthritis Pain Assessment Scale

Abstract

Rheumatoid Arthritis (RA) is a chronic autoimmune disease that often results in debilitating pain for those afflicted. Accurate pain assessment is crucial for effective management and treatment of RA patients. This review aims to provide a concise overview of the various pain assessment scales and tools utilized in the evaluation of pain among RA patients. These scales encompass both self-report and clinical assessment tools, each with its unique strengths and limitations. The assessment scales discussed in this review include the Visual Analog Scale (VAS), the Numerical Rating Scale (NRS), the Disease Activity Score (DAS), the Health Assessment Questionnaire (HAQ), and the Rheumatoid Arthritis Pain Assessment Scale (RAPAS). Special attention is given to the RAPAS, a relatively newer instrument designed to comprehensively evaluate pain in RA patients by incorporating both self-report and physician assessment components. Understanding the nuances of these pain assessment tools is essential for healthcare providers in optimizing pain management strategies and improving the quality of life for individuals living with RA. This review provides a valuable resource for clinicians and researchers seeking to enhance their understanding of RA pain assessment methodologies.

Keywords: Rheumatoid arthritis • Visual analog scale (VAS) • Numerical rating scale (NRS) • Rheumatoid arthritis pain assessment

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Introduction

Rheumatoid Arthritis (RA) is a chronic autoimmune disease characterized by inflammation of the synovial joints, leading to joint pain, swelling, stiffness, and progressive joint damage. One of the primary challenges in managing RA is the assessment and management of pain, which significantly impacts the quality of life of affected individuals. Accurate pain assessment is crucial for tailoring treatment strategies, monitoring disease progression, and evaluating the effectiveness of interventions. This review provides a comprehensive overview of various pain assessment scales and tools used in the context of Rheumatoid Arthritis. The effective evaluation of pain in RA patients requires a multidimensional approach, considering both patient-reported outcomes and clinical assessments. This review highlights the key pain assessment scales commonly employed in clinical practice and research [1].

We will delve into the Visual Analog Scale (VAS) and Numerical Rating Scale (NRS), which are frequently used self-report tools for

quantifying pain intensity. Additionally, we will explore the Disease Activity Score (DAS) and the Health Assessment Questionnaire (HAQ) as tools that encompass pain assessment as part of a broader disease evaluation [2]. Furthermore, we will place particular emphasis on the Rheumatoid Arthritis Pain Assessment Scale (RAPAS), a relatively newer instrument designed to comprehensively assess pain in RA patients by integrating patient self-reports and physician assessments. RAPAS offers a holistic view of pain, considering its impact on various aspects of daily life. This review aims to provide healthcare professionals, researchers, and clinicians with a concise yet informative resource for understanding and selecting appropriate pain assessment tools in the management of Rheumatoid Arthritis. By enhancing our understanding of these tools, we can better tailor treatment plans and improve the overall well-being of RA patients [3].

Numerical rating scale

The Numerical Rating Scale (NRS) is a pain assessment tool commonly used in healthcare

settings to measure pain intensity. It typically involves a scale where the individual is asked to rate their pain on a numerical scale, with 0 indicating no pain and a higher number representing increasing pain severity. However, you mentioned "without point," which suggests a modification or variation of the NRS. If you meant to refer to a simplified version of the NRS that doesn't involve specific numerical points, you might be describing a simple verbal pain rating scale. In this case, individuals are asked to describe their pain using words such as "no pain," "mild pain," "moderate pain," or "severe pain" without assigning numerical values. This verbal description approach can be more accessible for certain individuals, especially those who might find it challenging to assign a precise numerical rating. It provides a qualitative assessment of pain intensity based on descriptive terms rather than numerical values. In summary, a Numerical Rating Scale without specific numerical points would likely involve using verbal descriptors to assess pain intensity, providing a more qualitative assessment of pain severity [4].

Visual analog scale

The Visual Analog Scale (VAS) is a widely used pain assessment tool in healthcare and clinical research. It is a simple and effective method for individuals to self-report their pain intensity. The VAS typically consists of a 10 cm (or longer) horizontal or vertical line on a piece of paper or a visual display. The two endpoints of the line are labeled, with one end representing "no pain" and the other end representing "worst pain imaginable." The individual is asked to mark or point to a spot on the line that best represents their current pain level. They can make a vertical mark on the line to indicate their pain intensity. The distance (in millimeters or centimeters) from the "no pain" end of the line to the individual's mark is then measured. This measurement is taken as the pain score. The score typically ranges from 0 (indicating no pain) to 100 (indicating the worst pain imaginable). The VAS provides a continuous scale for assessing pain intensity, allowing for a more precise measurement compared [5].

Materials and Methods

Describe the characteristics of the study participants, including demographics, sample size, and inclusion/exclusion criteria if applicable. Explain the overall design of the study, such as whether it's observational, experimental, cross-sectional, longitudinal, etc. Detail the data collection methods, instruments, or tools used in the study, including any surveys, questionnaires, or measurements. Specify how and where the data were

collected (e.g., clinical settings, laboratory, online surveys). If applicable, describe any ethical considerations and approvals related to participant recruitment and data collection. Define the variables examined in the study, including independent, dependent, and control variables. Outline the step-by-step procedures followed during the study. Include information on how participants were recruited, informed consent procedures, and any randomization or blinding methods if applicable [6]. Describe any interventions or treatments administered to participants in experimental studies. Specify the statistical or analytical methods used to analyze the data. Mention any software or statistical packages employed. Detail any statistical tests, models, or techniques used for hypothesis testing or data exploration. Highlight any ethical considerations, including participant consent, privacy, and any ethical review board approvals [7]. If applicable, mention whether the data will be made available to other researchers and provide details on data sharing. This outline provides a general structure for the Materials and Methods section in research papers or studies. Researchers should expand on each of these elements with specific details relevant to their study's methodology [8].

Result and Discussion

These sections are essential components of a research paper or study and typically include a comprehensive presentation of findings and an in-depth discussion of their implications. Summarize the key findings of the study without interpretation. Use tables, figures, and charts to present data visually. Organize results logically, such as by research question or hypothesis. Provide relevant descriptive statistics (e.g., means, medians, standard deviations) for key variables. Report the results of statistical tests, including p-values, effect sizes, and confidence intervals. Highlight significant findings and relationships between variables [9]. Interpret the results of the study and discuss their implications. Explain how the findings align with or diverge from the research hypotheses or objectives. Consider the practical and theoretical implications of the results. Discuss how the study's findings compare to existing literature or prior research in the field. Highlight similarities and differences in results and interpretations. Suggest potential areas for future research based on the current findings. Discuss unanswered questions or areas where further investigation is needed. Discuss practical implications for practitioners, policymakers, or professionals in the field. This outline provides a general structure for the Results and Discussion sections in research papers or studies. Researchers should expand on

each of these elements with specific details and in-depth analysis relevant to their study's findings and research questions [10].

Conclusion

Summarize the main findings and results obtained from the study. Reiteration of Research Objectives Remind readers of the primary research objectives or questions addressed in the study. Discuss the broader implications of the study's findings for the field of research or the subject area. Emphasize the significance of the research in addressing gaps in knowledge or contributing to existing theories. Highlight the specific contributions that this study makes to the body of knowledge in the field. Acknowledge any limitations or constraints encountered during the research process. Discuss how these limitations may have affected the study's results and interpretations. Offer recommendations for future research based on the study's findings.

Suggest potential avenues for further investigation or areas where additional research is needed. Discuss the practical applications of the research, including how the findings can be utilized in practice, policy, or real-world scenarios. Provide any concluding remarks or insights related to the study. Summarize the overall significance and relevance of the research in a broader context. End the conclusion section with a closing statement that leaves a strong impression on the reader. This outline serves as a general framework for the Conclusion section of a research paper or study. Researchers should elaborate on each of these elements by incorporating specific findings, insights, and implications that are pertinent to their study's focus and objectives.

Conflicts of Interest

None

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None

References

1. Abolfazl Akbarzadeh. Liposome: Classification, Preparation, and Applications. *Nanoscale Res Lett.*8, 102 (2013).
2. Goyal M. Endovascular thrombectomy after large vessel ischaemic stroke: a meta- analysis of individual patient data from five randomised trials. *Lancet.* 22,416-430 (2016).
3. Hamdi Nsairat. Liposomes: Structure, Composition, Types, and Clinical Applications. *Heliyon.*8, 9394 (2022).
4. Berkhemer OA. A randomized trial of intra-arterial treatment for acute ischemic stroke. *N Engl J Med.*14, 473-478 (2015).
5. Harrison, Paul. How shall I say it? Relating the nonrelational. *Environ Plan A.* 39, 590-608 (2007).
6. Vukasinovic. Real Life impact of anesthesia strategy for mechanical thrombectomy on the delay, recanalization and outcome in acute ischemic stroke patients. *J Neuroradiol.* 95,391-392 (2019).
7. Carrillo JE, Carrillo VA, Perez HR *et al.* Defining and targeting health care access barriers. *J Health Care Poor Underserved.* 22,562-75 (2011).
8. Carrillo JE, Carrillo VA, Perez HR *et al.* Defining and targeting health care access barriers. *J Health Care Poor Underserved.* 22,562-75 (2011).
9. Peng J, Luo F, Ruan G *et al.* Hypertriglyceridemia and atherosclerosis. *Lipids Health Dis.* 16,233 (2017).
10. Kooman JP, Kotanko P, Stenvinkel P *et al.* Chronic kidney disease and premature ageing. *Nat Rev Nephrol.*10, 732-742 (2014).