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UNDERSTANDING THE ROLE AND ADOPTION OF ARTIFICIAL INTELLIGENCE TECHNIQUES IN RHEUMATOLOGY RESEARCH: AN IN-DEPTH REVIEW OF THE LITERATURE

Keywords: Systematic review, Artificial intelligence

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Background: Artificial intelligence (AI) is rapidly gaining adoption in the medical field [1]. We review, the original research articles that combine AI and Rheumatic and Musculoskeletal diseases (RMDs) in which AI plays a key role, has exhibited the interest of rheumatology researchers in using these techniques to answer their research questions. We can conclude that the rheumatology research community is increasingly adopting novel AI techniques.

Objectives: The outstanding and upward trend in the number of published research related to rheumatic and musculoskeletal diseases, in which AI plays a key role, has exhibited the interest of rheumatology researchers in using these techniques to answer their research questions. We can conclude that the rheumatology research community is increasingly adopting novel AI techniques.

Methods: A literature search was conducted to identify publications related to RMDs in which AI techniques played a relevant role in four different sources: PubMed, Web of Science, Scopus and in the search engines of rheumatology journals classified as Q1 and Q2 according to Journal Citation Reports 2019. The keywords employed were artificial intelligence, supervised learning, unsupervised learning, deep learning, prediction, predictors identification, patient stratification and disease subtype identification, disease progression and activity, and treatment response.

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RESPIRATORY INFECTIONS IN SYSTEMIC LUPUS ERYTHEMATOSUS, PRIMARY AND SECONDARY AFS BEFORE AND AFTER VACCINATION WITH 23-VALENT POLYSACCHARIDE PNEUMOCOCCAL VACCINE

Keywords: Vaccination/imunization