



Universiteit
Leiden
The Netherlands

The gestalt of spondyloarthritis: From early recognition to long-term imaging outcomes

Sepriano, A.R.

Citation

Sepriano, A. R. (2020, November 19). *The gestalt of spondyloarthritis: From early recognition to long-term imaging outcomes*. Retrieved from <https://hdl.handle.net/1887/138375>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/138375>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/138375> holds various files of this Leiden University dissertation.

Author: Sepriano, A.R.

Title: The gestalt of spondyloarthritis: From early recognition to long-term imaging outcomes

Issue date: 2020-11-19

LIST OF PUBLICATIONS

1. Machado P, Bogas M, Ribeiro A, Costa J, Neto A, Sepriano A, Raposo A, Cravo AR, Vilar A, Furtado C, Ambrósio C, Miguel C, Vaz C, Catita C, Nour D, Araújo D, Vieira-Sousa E, Teixeira F, Brandão F, Canhão H, Cordeiro I, Gonçalves I, Ferreira J, Fonseca JE, da Silva JA, Romeu J, Ferreira J, Costa L, Maurício L, Cunha-Miranda L, Parente M, Coutinho M, Cruz M, Oliveira M, Salvador MJ, Santos MJ, Pinto P, Valente P, Abreu P, Roque R, Ramiro S, Capela S, Las V, Barcelos A. 2011 Portuguese recommendations for the use of biological therapies in patients with psoriatic arthritis. *Acta Reumatol Port.* 2012 Jan-Mar;37(1):26-39
2. Rodrigues AM, Caetano-Lopes J, Vale AC, Aleixo I, Pena AS, Faustino A, Sepriano A, Polido-Pereira J, Vieira-Sousa E, Lucas R, Romeu JC, Monteiro J, Vaz MF, Fonseca JE, Canhão H. Smoking is a predictor of worse trabecular mechanical performance in hip fragility fracture patients. *J Bone Miner Metab.* 2012 Nov;30(6):692-9
3. Rodrigues AM, Caetano-Lopes J, Vale AC, Vidal B, Lopes A, Aleixo I, Polido-Pereira J, Sepriano A, Perpétuo IP, Monteiro J, Vaz MF, Fonseca JE, Canhão H. Low osteocalcin/collagen type I bone gene expression ratio is associated with hip fragility fractures. *Bone.* 2012 Dec;51(6):981-9
4. Araújo F, Silva I, Sepriano A, Nero P, Branco JC. Off-label use of rituximab in systemic rheumatic diseases: case series and review. *Acta Reumatol Port.* 2013 Oct-Dec;38(4):290-4.
5. Fonseca JE, Gonçalves J, Araújo F, Cordeiro I, Teixeira F, Canhão H, da Silva JA, Garcês S, Miranda LC, Ramiro S, Roxo A, Pimentel-Santos FM, Tavares V, Neto A, Sepriano A, Malcata A, Faustino A, Silva C, Ambrósio C, Duarte C, Miguel C, Barcelos F, Santos H, Cunha I, Ramos JC, Gomes JA, Pimentão JB, Costa L, Maurício L, Silva M, Bernardes M, Bogas M, Coelho PC, Monteiro P, Aguiar R, André R, Leitão R, Pimenta S, Meirinhos T, Fernandes S, Las V, Castelhão W. The Portuguese Society of Rheumatology position paper on the use of biosimilars. *Acta Reumatol Port.* 2014 Jan-Mar;39(1):60-71
6. Sepriano AR, Pereira Pombo de Araújo FC, Mourão de Almeida Lourenço Dias PM, da Cunha Branco J. Normocalcemic Primary Hyperparathyroidism presenting as Calcinosis Cutis. *J Clin Rheumatol.* 2014 Sep;20(6):330-1
7. Araújo F, Silva I, Sepriano A, Reizinho C, Marques L, Nero P, Branco JC. Cervical spine involvement as initial manifestation of Rheumatoid Arthritis: a case report. *Acta Reumatol Port.* 2015 Jan-Mar;40(1):64-7
8. Sepriano A, Roman-Blas JA, Little RD, Pimentel-Santos F, Arribas JM, Largo R, Branco JC, Herrero-Baumont G. DXA in the Assessment of Subchondral Bone Mineral Density in Knee Osteoarthritis – a Semi-Standardized Protocol after Systematic Review. *Semin Arthritis Rheum.* 2015 Dec;45(3):275-83
9. Rodrigues AM, Gouveia N, da Costa LP, Eusébio M, Ramiro S, Machado P, Mourão AF, Silva I, Laíres P, Sepriano A, Araújo F, Coelho PS, Gonçalves S, Zhao A, Fonseca JE, de Almeida JM, Tavares V, da Silva JA, Barros H, Cerol J, Mendes J, Carmona L, Canhão H, Branco JC. EpiReumaPt-

the study of rheumatic and musculoskeletal diseases in Portugal: a detailed view of the methodology. *Acta Reumatol Port.* 2015 Apr-Jun;40(2):110-24

10. Branco JC, Rodrigues AM, Gouveia N, Eusébio M, Ramiro S, Machado PM, da Costa LP, Mourão AF, Silva I, Laires P, **Sepriano A**, Araújo F, Gonçalves S, Coelho PS, Tavares V, Cerol J, Mendes JM, Carmona L, Canhão H, EpiReumaPt study group. Prevalence and Physical and Mental Health Patterns of Rheumatic and Musculoskeletal Diseases in Portugal: Results from EpiReumapt, A National Health Survey. *RMD Open* 2016;2:e000166
11. **Sepriano A**, Landewé R, van der Heijde D, Sieper J, Akkoc N, Brandt J, Braun J, Collantes-Estevez E, Dougados M, Fitzgerald O, Huang F, Gu J, Kirazli Y, Maksymowych WP, Marzo-Ortega H, Olivieri I, Ozgocmen S, Roussou E, Scarpato S, Sørensen IJ, Valle-Oñate R, Van den Bosch F, van der Horst-Bruinsma I, Weber U, Wei J, Rudwaleit M, on behalf of ASAS. Predictive validity of the ASAS-Classification Criteria for Axial and Peripheral Spondyloarthritis after follow-up in the ASAS-cohort: A final analysis. *Ann Rheum Dis.* 2016 Jun;75(6):1034-42
12. **Sepriano A**, Rudwaleit M, Sieper J, van den Berg R, Landewé R, van der Heijde D. Five-year follow-up of radiographic sacroiliitis: progression as well as improvement? *Ann Rheum Dis.* 2016 Jun;75(6):1262-3
13. **Sepriano A**, Ramiro S, van der Heijde D, Ávila-Ribeiro P, Fonseca R, Borges J, Teixeira L, Carvalho P, Cerqueira M, Neves J, Meirinhos T, Barcelos A, Sequeira G, Salvador MJ, Canas da Silva JA, Santos H, Bernardes M, Vieira-Sousa E, Canhão H, Branco JC, Pimentel-Santos F, Landewé R. Effect of comedication with conventional synthetic DMARDs on TNF inhibitors-retention in patients with spondyloarthritis: A prospective cohort. *Arthritis Rheumatol.* 2016 Nov;68(11):2671-2679
14. Vieira Sousa E, **Sepriano A**, Pimentel Santos F. Investigator initiated trials in Portuguese rheumatology. *Acta Reumatol Port.* 2016 Apr-Jun;41(2):101-3
15. Regel A, **Sepriano A**, Baraliakos X, van der Heijde D, Braun J, Landewé R, Van den Bosch F, Falzon L, Ramiro S. Efficacy and safety of non-pharmacological and non-biological pharmacological treatment: a systematic literature review informing the 2016 update of the ASAS/EULAR recommendations for the management of axial spondyloarthritis. *RMD Open* 2017;3:e000397
16. **Sepriano A**, Regel A, van der Heijde D, Braun J, Baraliakos X, Landewé R, Van den Bosch F, Falzon L, Ramiro S. Efficacy and safety of biological and targeted-synthetic DMARDs: a systematic literature review informing the 2016 update of the ASAS/EULAR recommendations for the management of axial spondyloarthritis. *RMD Open* 2017;3:e000396
17. van der Heijde D, Ramiro S, Landewé R, Baraliakos X, Van den Bosch F, **Sepriano A**, Regel A, Ciurea A, Dagfinrud H, Dougados M, van Gaalen F, Géher P, van der Horst-Bruinsma I, Inman RD, Jongkees M, Kiltz U, Kvien TK, Machado PM, Marzo-Ortega H, Moltó A, Navarro-Compán V, Ozgocmen S, Pimentel-Santos FM, Reveille J, Rudwaleit M, Sieper J, Sampaio-Barros P, Wiek D, Braun J. 2016 update of the ASAS-EULAR management recommendations for axial spondyloarthritis. *Ann Rheum Dis.* 2017 Jun;76(6):978-991

18. **Sepriano A**, Rubio R, Ramiro S, Landewé R, van der Heijde D. Performance of the ASAS classification criteria for axial and peripheral spondyloarthritis: a systematic literature review and meta-analysis. *Ann Rheum Dis*. 2017 May;76(5):886-890
19. Ramiro S, **Sepriano A**, Chatzidionysiou K, Nam JL, Smolen JS, van der Heijde D, Dougados M, van Vollenhoven R, Bijlsma JW, Burmester GR, Scholte-Voshaar M, Falzon L, Landewé RBM. Safety of synthetic and biological DMARDs: a systematic literature review informing the 2016 update of the EULAR recommendations for management of rheumatoid arthritis. *Ann Rheum Dis*. 2017 Jun;76(6):1101-1136
20. Duarte C, Sousa-Neves J, Águeda A, Ribeiro P, Daniel A, Eugénio G, Serra S, Araújo F, Barcelos A, Filipe B, Bernardes M, Canhão H, Cerqueira M, Capela S, Cordeiro A, Costa F, Costa L, Cruz M, Cunha Miranda L, Duarte C, Falcão S, Faria D, Figueira R, Freitas JP, Gonçalves MJ, Madruga Dias J, Melo Gomes J, Mourão AF, Neto A, Oliveira Ramos F, Pimenta S, Pinto P, Polido Pereira J, Ponte C, Ramos J, Rodrigues A, Santos H, Santos MJ, **Sepriano A**, Silva C, Tavares Costa J, Teixeira F, Teixeira V, Valente P, Vieira-Sousa E, Barros R, Abreu P, Fonseca JE. Portuguese Recommendations for the use of biological therapies in patients with rheumatoid arthritis- 2016 update. *Acta Reumatol Port*. 2017 Jun 1;42(2)(Apr-Jun):112-126
21. Duarte AC, Santos-Faria D, Gonçalves MJ, **Sepriano A**, Mourão AF, Duarte C, Neves JS, Águeda AF, Ribeiro PÁ, Daniel A, Neto A, Cordeiro A, Rodrigues A, Barcelos A, Silva C, Ponte C, Vieira-Sousa E, Teixeira F, Oliveira-Ramos F, Araújo F, Barcelos F, Canhão H, Santos H, Ramos J, Pereira J, Costa J, Melo Gomes JA, Cunha-Miranda L, Costa L, Cerqueira M, Cruz M, Santos MJ, Bernardes M, Oliveira P, Abreu P, Figueira R, Barros R, Falcão S, Pinto P, Pimenta S, Capela S, Teixeira V, Fonseca JE. Portuguese recommendations for the use of methotrexate in rheumatic diseases - 2016 update. *Acta Reumatol Port*. 2017 Apr-Jun;42(2):127-140
22. Dougados M, **Sepriano A**, Moltó A, van Lunteren M, Ramiro S, de Hooze M, van den Berg R, Navarro Compán V, Demattei C, Landewé R, van der Heijde D. Sacroiliac radiographic progression in recent onset axial spondyloarthritis: the 5-year data of the DESIR cohort. *Ann Rheum Dis*. 2017 Nov;76(11):1823-1828
23. Araújo FC, **Sepriano A**, Teixeira F, Jesus D, Rocha TM, Martins P, Tenazinha C, Cordeiro A, Mourão AF, Silva C, Vaz C, Duarte C, Ponte C, Dos Santos FP, Canhão H, Santos H, Pimentão JB, da Silva JC, Pereira J, da Silva JAP, Miranda LC, Oliveira M, Saavedra MJ, Gonçalves P, Falcão S, Capela S, Fonseca JE. The Portuguese Society of Rheumatology position paper on the use of biosimilars - 2017 update. *Acta Reumatol Port*. 2017 Jul-Sep;42(3):219-228
24. Cruz EB, Ramiro S, Machado P, Sousa S, Aguiar R, **Sepriano A**, Manica SR7, Kiltz U, Branco JC, Pimentel-Santos FM. Translation and cross-cultural adaptation of the ASAS Health Index and ASAS Environmental Factors Item Set into European Portuguese Language. *Acta Reumatol Port*. 2017 Jul-Sep;42(3):256-262
25. Rodríguez-Carrio J, Putrik P, **Sepriano A**, Moltó A, Nikiphorou E, Gossec L, Kvien TK, Ramiro S. Improving the peer review skills of young rheumatologists and researchers in rheumatology: the EMEUNET Peer Review Mentoring Program. *RMD Open* 2018;4:e000619. doi: 10.1136/rmdopen-2017-000619

26. Duftner C, Dejaco C, **Sepriano A**, Falzon L, Schmidt WA, Ramiro S. Imaging in diagnosis, outcome prediction and monitoring of large vessel vasculitis: A systematic literature review and meta-Analysis informing the EULAR recommendations. *RMD Open*. 2018 Feb 2;4(1):e000612. doi: 10.1136/rmdopen-2017-000612
27. Rodrigues Manica S, **Sepriano A**, Ramiro S, Pimentel Santos F, Putrik P, Nikiphorou E, Norton S, Moltó A, Dougados M, van der Heijde D, Landewé RBM, van den Bosch FE, Boonen A. Work participation in spondyloarthritis across countries: analysis from the ASAS-COMOSPA study. *Ann Rheum Dis*. 2018 Sep;77(9):1303-1310
28. Ramiro S, Claudepierre P, **Sepriano A**, van Lunteren M, Moltó A, Feydy A, Antonietta d'Agostino M, Loeuille D, Dougados M, Reijnierse M, van der Heijde D. Which scoring method depicts spinal radiographic damage in early axial spondyloarthritis best? Five-year results from the DESIR cohort. *Rheumatology (Oxford)*. 2018 Nov 1;57(11):1991-2000
29. van Lunteren M, **Sepriano A**, Landewé R, Sieper J, Rudwaleit M, van der Heijde D, van Gaalen F. Do ethnicity, degree of family relationship, and the spondyloarthritis subtype in affected relatives influence the association between a positive family history for spondyloarthritis and HLA-B27 carriership? Results from the worldwide ASAS cohort. *Arthritis Res Ther*. 2018 Aug 3;20(1):166
30. Stamm TA, Machold KP, Aletaha D, Alasti F, Lipsky P, Pisetsky D, Landewé R, van der Heijde D, **Sepriano A**, Aringer M, Boumpas D, Burmester G, Cutolo M, Ebner W, Graninger W, Huizinga T, Schett G, Schulze-Koops H, Tak PP, Martin-Mola E, Breedveld F, Smolen J. Induction of sustained remission in early inflammatory arthritis with the combination of infliximab plus methotrexate: the DINORA trial. *Arthritis Res Ther*. 2018 Aug 9;20(1):174
31. Ramiro S, van der Heijde D, **Sepriano A**, van Lunteren M, Moltó A, Feydy A, d'Agostino MA, Loeuille D, Dougados M, Reijnierse M, Claudepierre P. Spinal radiographic progression in early axial Spondyloarthritis: Five-year results from the DESIR cohort. *Arthritis Care Res (Hoboken)*. 2019 Dec;71(12):1678-1684
32. **Sepriano A**, Ramiro S, Landewé R, Dougados M, van der Heijde D, Rudwaleit M. Is active sacroiliitis on MRI associated with radiographic damage in axial spondyloarthritis? Real-life data from the ASAS and DESIR cohorts. *Rheumatology (Oxford)*. 2019 May 1;58(5):798-802.
33. Boone NW, **Sepriano A**, van der Kuy PH, Janknegt R, Peeters R5, Landewé RBM. Cotreatment with methotrexate in routine care patients with rheumatoid arthritis receiving biological treatment yields better outcomes over time. *RMD Open*. 2019 Jan 22;5(1):e000836
34. Gomes JL, **Sepriano A**, Eusébio M, Serra S, Fonseca JE, Saavedra MJ, Cunha-Miranda L, Silva C5, Bernardes M, Rosa-Gonçalves D, Costa J, Castelhão W, Branco JC, Santos MJ. Predictors and causes of first-line biologic agent discontinuation in rheumatoid arthritis: data from Reuma.pt. *Acta Reumatol Port*. 2019 Jan-Mar;44(1):57-64

35. **Sepriano A**, Ramiro S, Araújo FC, Machado PM, Rodrigues AM, Gouveia N, Eusébio M, Canhão H, Branco J. Performance of referral strategies for spondyloarthritis: a population-based nationwide study. *Rheumatology (Oxford)*. 2019 Jun 1;58(6):1086-1094
36. **Sepriano A**, Ramiro S, Landewé R, Dougados M, van der Heijde D. Percentage of progressors in imaging: can we ignore regressors? *RMD Open*. 2019 Feb 26;5(1):e000848.
37. Bergstra SA, **Sepriano A**, Ramiro S, Landewé R. Three handy tips and a practical guide to improve your propensity score models. *RMD Open*. 2019 May 1;5(1):e000953
38. Maksymowych WP, FitzGerald O, Østergaard M, Homik J, van der Heijde D, Lambert RG, Elkayam O, Ramiro S, Thorne JC, Larché MJ, Ferraccioli G, Backhaus M, Burmester GR, Boire G, Combe B, Schaeferbeke T, Saraux A, Dougados M, Rossini M, Govoni M, Sinigaglia L, Cantagrel A, Barnabe C, Bingham CO 3rd, Tak PP, van Schaardenburg D, Berner Hammer H, Paschke J, Dadashova R, Hutchings E, **Sepriano A**, Landewé R. Outcomes and Findings of the International Rheumatoid Arthritis (RA) BIODAM Cohort for Validation of Soluble Biomarkers in RA. *J Rheumatol*. 2019 Sep 1. pii: jrheum.190302
39. **Sepriano A**, Ramiro S, FitzGerald O, Østergaard M, Homik J, van der Heijde D, Elkayam O, Thorne JC, Larché MJ, Ferraccioli G, Backhaus M, Burmester GR, Boire G, Combe B, Schaeferbeke T, Saraux A, Dougados M, Rossini M, Govoni M, Sinigaglia L, Cantagrel A, Barnabe C, Bingham CO 3rd, Tak PP, van Schaardenburg D, Berner Hammer H, Paschke J, Dadashova R, Hutchings E, Landewé R, Maksymowych WP. Adherence to Treat-to-target Management in Rheumatoid Arthritis and Associated Factors: Data from the International RA BIODAM Cohort. *J Rheumatol*. 2019 Sep 15. pii: jrheum.190303
40. van Lunteren M, van der Heijde D, **Sepriano A**, Berg IJ, Dougados M, Gossec L, Jacobsson L, Ramonda R, Rudwaleit M, Sieper J, Landewé R, van Gaalen FA. Is a positive family history of spondyloarthritis relevant for diagnosing axial spondyloarthritis once HLA-B27 status is known? *Rheumatology (Oxford)*. 2019 Sep 1;58(9):1649-1654
41. Boone NW, **Sepriano A**, van der Kuy PH, Janknegt R, Peeters R, Landewé RBM. Routine Assessment of Patient Index Data 3 (RAPID3) alone is insufficient to monitor disease activity in rheumatoid arthritis in clinical practice. *RMD Open*. 2019 Nov 28;5(2):e001050
42. Smolen JS, Landewé RBM, Bijlsma JWJ, Burmester GR, Dougados M, Kerschbaumer A, McInnes IB, **Sepriano A**, van Vollenhoven RF, de Wit M, Aletaha D, Aringer M, Askling J, Balsa A, Boers M, den Broeder AA, Buch MH, Buttgerit F, Caporali R, Cardiel MH, De Cock D, Codreanu C, Cutolo M, Edwards CJ, van Eijk-Hustings Y, Emery P, Finckh A, Gossec L, Gottenberg JE, Hetland ML, Huizinga TWJ, Koloumas M, Li Z, Mariette X, Müller-Ladner U, Mysler EF, da Silva JAP, Poór G, Pope JE, Rubbert-Roth A, Ruysen-Witrand A, Saag KG, Strangfeld A, Takeuchi T, Voshaar M, Westhovens R, van der Heijde D. EULAR recommendations for the management of rheumatoid arthritis with synthetic and biological disease-modifying antirheumatic drugs: 2019 update. *Ann Rheum Dis*. 2020 Jan 22. pii: annrheumdis-2019-216655

43. **Sepriano A**, Ramiro S, van der Heijde D, van Gaalen F, Hoonhout P, Moltó A, Saraux A, Ramonda R, Dougados M, Landewé R. What is axial spondyloarthritis? A latent class and transition analysis in the SPACE and DESIR cohorts. *Ann Rheum Dis*. 2020 Mar;79(3):324-331
44. Kerschbaumer A, **Sepriano A**, Smolen JS, van der Heijde D, Dougados M, van Vollenhoven R, McInnes IB, Bijlsma JWW, Burmester GR, de Wit M, Falzon L, Landewé R. Efficacy of pharmacological treatment in rheumatoid arthritis: a systematic literature research informing the 2019 update of the EULAR recommendations for management of rheumatoid arthritis. *Ann Rheum Dis*. 2020 Feb 7. pii: annrheumdis-2019-216656
45. **Sepriano A**, Kerschbaumer A, Smolen JS, van der Heijde D, Dougados M, van Vollenhoven R, McInnes IB, Bijlsma JW, Burmester GR, de Wit M, Falzon L, Landewé R. Safety of synthetic and biological DMARDs: a systematic literature review informing the 2019 update of the EULAR recommendations for the management of rheumatoid arthritis. *Ann Rheum Dis*. 2020 Feb 7. pii: annrheumdis-2019-216653
46. Ramiro S, Landewé RB, van der Heijde D, **Sepriano A**, Fitzgerald O, Østergaard M, Homik J, Elkayam O, Thorne JC, Larche M, Ferracioli G, Backhaus M, Boire G, Combe B, Schaevebeke T, Saraux A, Dougados M, Rossini M, Govoni M, Sinigaglia L, Cantagrel AG, Allaart CF, Barnabe C, Bingham CO, Tak PP, van Schaardenburg D, Hammer HB, Dadashova R, Hutchings E, Paschke J, Maksymowych WP. Is treat-to-target really working in rheumatoid arthritis? a longitudinal analysis of a cohort of patients treated in daily practice (RA BIODAM). *Ann Rheum Dis*. 2020 Apr;79(4):453-459
47. Marona J, **Sepriano A**, Rodrigues-Manica S, Pimentel-Santos F, Mourão AF, Gouveia N, Branco JC, Santos H, Vieira-Sousa E, Vinagre F, Tavares-Costa J, Rovisco J, Bernardes M, Madeira N, Cruz-Machado R, Roque R, Silva JL, Marques ML, Ferreira RM, Ramiro S. Eligibility criteria for biologic disease-modifying antirheumatic drugs in axial spondyloarthritis: going beyond BASDAI. *RMD Open*. 2020 Jan;6(1). pii: e001145
48. Rodríguez-Carrio J, Putrik P, Gwinnutt J, **Sepriano A**, Alunno A, Ramiro S, Leipe J, Nikiphorou E. Mentoring for postdoctoral researchers in rheumatology: the Emerging EULAR Network (EMEUNET) post-doc mentoring programme. *RMD Open* 2020;6:e001139
49. Madari Q, **Sepriano A**, Ramiro S, Moltó A, Claudepierre P, Wendling D, Dougados M, van der Heijde D, van Gaalen FA. 5-year follow-up of spinal and sacroiliac MRI abnormalities in early axial spondyloarthritis: Data from the DESIR cohort. *RMD Open* 2020;6:e001093
50. **Sepriano A**, Ramiro S, van der Heijde D, Dougados M, Claudepierre P, Feydy A, Reijnierse M, Loeuille D, Landewé R. Integrated longitudinal analysis does not compromise precision and reduces bias in the study of imaging outcomes: A comparative 5-year analysis in the DESIR cohort. *Semin Arthritis Rheum*. 2020 Mar 3. pii: S0049-0172(20)30070-6
51. Stal R, van Gaalen F, **Sepriano A**, Braun J, Reijnierse M, van den Berg R, van der Heijde D, Baraliakos X. Facet joint ankylosis in r-axSpA: detection and 2-year progression on whole spine low-dose CT and comparison with syndesmophyte progression. *Rheumatology (Oxford)*. 2020 May 17;keaa155.

52. **Sepriano A**, Ramiro S, van der Heijde D, Landewé RBM. Response to: 'Reactive arthritis, a missing link: comment on the recent article from Sepriano et al' by Zeidler and Hudson. *Ann Rheum Dis*. 2020 Apr 2. pii: annrheumdis-2020-217347
53. Nikiphorou E, Ramiro R, **Sepriano A**, Witrand A, Landewé RBM, van der Heijde D. Do smoking and socioeconomic factors influence imaging outcomes in axial spondyloarthritis? Five-year data from the DESIR cohort. *Arthritis Rheumatol*. 2020 Jun 20. doi: 10.1002/art.41408
54. **Sepriano A**, Ramiro S, Landewé R, Moltó A, Claudepierre P, Wendling D, Dougados M, van der Heijde D. Inflammation of the sacroiliac joints and spine on MRI predicts structural changes on MRI in axial spondyloarthritis: 5-year data from DESIR. Accepted for publication, *Arthritis Care & Research*
55. **Sepriano A**, Ramiro S, van der Heijde D, Dougados M, Claudepierre P, Feydy A, Reijnierse M, Loeuille D, Landewé R. Which imaging outcomes for axSpA are most sensitive to change? A 5-Year analysis of The DESIR Cohort. Accepted for publication, *Arthritis Care & Research*
56. van der Burg L, **Sepriano A**, Landewé RBM, Geuskens GA, Ottenheijm RPG, Dinant GJ, Boonen A. Comparative construct validity of three presenteeism instruments in workers with musculoskeletal complaints: a prospective cohort study. *RMD Open*. 2020 Aug;6(2):e001281
57. Rodrigues Manica S, **Sepriano A**, Pimentel Santos F, Gouveia N, Barcelos A, Branco J, Bernardes M, Miriam-Ferreira R, Vieira-Sousa E, Barreira S, Vinagre F, Roque R, Santos E, Madeira N, Rovisco J, Daniel A, Ramiro S. Effectiveness of switching between TNF inhibitors in patients with axial spondyloarthritis: is the reason to switch relevant? *Arthritis Res Ther*. 2020 Aug 21;22(1):195

CURRICULUM VITAE

Alexandre Sepriano was born on the 29th of September, 1985 in Vila Franca de Xira (30 km north of Lisbon), Portugal. He studied medicine at the University of Lisbon in Portugal and obtained his Integrated Master degree in Medicine in 2009. He did his general medicine rotation at Hospital Santa Maria in Lisbon between 2010 and 2011 and trained in Rheumatology at the Department of Rheumatology of Hospital Egas Moniz also in Lisbon from 2011 to 2016. During his training, Alexandre became a Fellow of the Harvard Medical School - Portugal Program's Clinical Scholars Research Training, a 2-year training program in epidemiology and biostatistics organized by the Harvard Medical School with the support from the Portuguese government, which he successfully completed. As part of his training, he also did a 9-month rotation in clinical research at the Department of Rheumatology of the Leiden University Medical Centre, in Leiden, The Netherlands. This rotation in Leiden was instrumental for his choice to pursue a clinical academic career and to undertake the research work that resulted in this thesis at the same institution. He obtained his specialist accreditation in Rheumatology in 2016. He has been awarded 5 grants and 6 scientific prizes. He is currently a Rheumatologist at the Hospital Egas Moniz in Lisbon, Portugal.

ACKNOWLEDGEMENTS

While writing the last words of this thesis, I cannot help to feel a major sense of accomplishment. But the journey that took me here was not made in solitude. I was very fortunate to count with the support from many people to whom I would like to address a few words of appreciation.

I would like to start by thanking all the patients, researchers and health professionals involved in the development and implementation of the DESIR, ASAS and SPACE cohorts.

A heartfelt word of gratitude to my dear promotor, Prof. dr. Désirée van der Heijde and Prof. dr. Robert Landewé, for their continuous support that extend way beyond science. Dear Désirée and dear Robert, you are so much more than promotor. You are true mentors in all possible ways. Over these years, you helped me not only to grow as a researcher, but also, and most importantly, as a person.

Dear co-promotor, Dr. Sofia Ramiro, dear Sofia, words cannot express my immense gratitude for all your support over these years. My friend, looking back to all we have achieved (look at this thesis) it is still not enough to pay tribute to all you did for me. So much work, often not visible, so many words, so much guidance that was key to help me be the person I am today.

A word of gratitude to my rheumatology training supervisor Prof. dr. Fernando Pimentel-Santos and to Prof. dr. Jaime Branco, head of the rheumatology department of *Hospital Egas Moniz* (HEM). Your support was key since day one. A special word to my colleagues and friends at the HEM rheumatology department. Also thank you Prof. dr. Helena Canhão, Prof. dr. João Eurico, Prof. dr. Maria José Santos, Prof. dr. José António Pereira da Silva for being a constant source of inspiration.

A decisive moment in my ‘research journey’ took place when I moved to Leiden to do a research fellowship at the LUMC. Prof. dr. Tom Huizinga. Dear Tom, thank you for making me feel at home and for the privilege of learning with you in your department. Thank you to all the LUMC PhD students for making me part of the group. A especial word to Sytske Anne Bergstra and Miranda van Lunteren for being my Dutch ‘godmothers’.

I had the privilege to work with researchers from all over the world, both in the context of EMEUNET and in collaborative research projects. Prof. Dr. Maxime Dougados, dear Maxime thank you for your always thoughtful comments in data interpretation and manuscript writing. So often, you helped me to see from the perspective of the practicing rheumatologist while reporting complex data. Dear Prof. Dr. Martin Rudwaleit, dear Martin, your work inspired a large part of this thesis. Thank you for the many discussions around the concept of spondyloarthritis that were decisive for my current understanding of this complex disease.

Leonor, Carlos and Claudia my dearest aunt, uncle and sister, thank you for all your support over the years. I can say with confidence, I would not be where I am today without you.

Last, but definitely not the least, Cátia, my beloved wife, no words written here can give the proper credit to everything I have to thank you for. You have always supported my career as a researcher. I could not do this thesis without you. My dearest daughters Catarina and Beatriz, years from now when you read this thesis, I want you to know that you played a central role in it. You are my continuous source of inspiration and unconditional love which adds meaning to all that I do.