## Cover Page



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Author: Lukas, Cédric

Title: Methodological aspects of outcome assessment in inflammatory rheumatic diseases

Date: 2012-05-31



Dankwoord

First and foremost I wish to thank my two co-promotors, Professor Désirée van der Heijde and Professor Robert Landewé, who made this work possible.

Professor van der Heijde, dear Désirée, you accepted me as a research fellow in your department, where I have felt at home from the beginning and for two years. Throughout these months you have been supportive since the days I began working, discovering how to handle a database, to the last steps when the results are reported and summed up, like in this thesis. I have learned a lot from you and I hope I will have the opportunity to keep on working at your side.

Professor Landewé, dear Robert, I had the chance to practice and apply methodology under your supervision, and I am very grateful to you about that. But it is also noticeable how much I have learned from you with regard to the general organization of a scientific project, which includes the methodological process as well as the more global human and logistic parts from it.

Professor Combe, dear Bernard, thank you for having incited me to study and apply methodology in medical science, after having taught me the skills of rheumatology. I keep on learning every day at your side, and I am pleased and proud to be part of your team in Montpellier.

Dear Annelies, Astrid, Debbie, Femke, Lisbeth, Marijke, Marian, Piet, Simone, Yolanda, I wish to thank you for your warm welcome and kind everyday-support in the Maastricht's way of life!

And of course Alexia, who supports me at any time during this long process, who has accepted to live abroad for a time and keeps on encouraging me in the work. Simply, thank you for everything you are.



Publications

1. Sudre A, Figuereido IT, Lukas C, Combe B, Morel J On the impact of a dedicated educational program for ankylosing spondylitis: effect on patient satisfaction, disease knowledge and spinal mobility, a pilot study. Joint Bone Spine 2012;79:99-100

2. Salliot C, Dawidowicz K, Lukas C, Guedj M, Paccard C, Benessiano J, Dougados M, Nicaise P, Meyer O, Dieudé P PTPN22 R620W genotypephenotype correlation analysis and gene-environment interaction study in early rheumatoid arthritis: results from the ESPOIR cohort. Rheumatology (Oxford) 2011;50:1802-8

3. Mouterde G, Lukas C, Logeart I, Flipo RM, Rincheval N, Daures JP, Combe B. The season of symptom onset influences the severity in early arthritis: Results from the ESPOIR Cohort. Ann Rheum Dis 2011;70:1251-6

4. Lukas C, Combe B, Ravaud P, Sibilia J, Landewé R, van der Heijde D. Favorable effect of very early DMARD treatment on radiographic progression in early inflammatory arthritis. The ESPOIR cohort study. Arthritis Rheum 2011;63(7):1804-11

5. Salliot C, Dawidowicz K, **Lukas C**, Guedj M, Paccard C, Benessiano J, Dougados M, Nicaise P, Meyer O, Dieudé P. PTPN22 R620W genotypephenotype correlation analysis and gene-environment interaction study in early RA: results from the ESPOIR cohort. Rheumatology 2011;50(10):1802-

6. Soubrier M, Lukas C, Sibila J, Fautrel B, Roux F, Gossec L, Patternote S, Dougados M. Disease activity score-driven therapy versus routine care in patients with recent-onset active rheumatoid arthritis: data from the GUEPARD trial and ESPOIR cohort. Ann Rheum Dis 2011;70(4):611-5

7. Slimani S, Lukas C, Combe B, Morel J. Rituximab and the risk of malignancies: Report from a French observational cohort. Joint Bone Spine 2011;78(5):484-7

8. **Lukas C**, van der Heijde D, Fatenejad S and Landewé R Repair of erosions occurs almost exclusively in damaged joints without swelling. Ann Rheum Dis 2010;69(5):851-5

8

- 9. Immediato Daïen C, **Lukas C**, Combe B, Morel J. Comment on : Sarcoid-like granulomatosis in patients treated with tumor necrosis factor blockers. Rheumatology (Oxford) 2010;49(5):1021-1022
- 10. Pers YM, Chekroun J, **Lukas C**, Combe B, Morel J. Postoperative discitis due to Propionibacterium acnes. Presse Med 2010 Sep;39(9):988-90
  - II. **Lukas C**. Critères composites de suivi d'activité dans les spondylarthropathies. Revue du rhumatisme 2010;77:48-51
- 12. **Lukas C**, Landewé R, Fatenejad S. and van der Heijde D. Subtle changes in individual joints result in both positive and negative change scores in a patient: Results from a clinical trial in patients with rheumatoid arthritis. Ann Rheum Dis 2009;68(II):1691-5
  - 13. **Lukas C**, Landewé R, Sieper J, Dougados M, Davis J, Braun J, van der Linden S, and van der Heijde D Assessment of SpondyloArthritis international Society. Development of an ASAS-endorsed disease activity score (ASDAS) in patients with ankylosing spondylitis. Ann Rheum Dis 2009;68:18-24
    - 14. **Lukas C**, Huizinga T, van der Heijde D. METEOR as an information tool to assess Rheumatoid Arthritis Disease Activity in clinical practice and improve patient outcome via tailor-made treatment. Int J Adv Rheumatol 2009,7(2):44-50
    - 15. Schiffmann A, Pers YM, **Lukas C**, Combe B, Morel J. Mesenteric and splenic cat-scratch disease during etanercept therapy. Rheumatology (Oxford) 2009;48:1461-2
    - 16. Lukas C, Sharp JT, Angwin J, Boers M, Duryea J, Hall JR, Kauffman JA, Landewé R, Langs G, Bernelot Moens HJ, Peloschek P, and van der Heijde D. Automated measurement of joint space width in small joints of patients with rheumatoid arthritis. J Rheumatol 2008;35(7):1288-93
- 17. **Lukas C**, Guillemin F, Landewé R, van der Heijde D, Logeart I, Fautrel B, Daures JP, Combe B. Factors determining a DMARD initiation in early inflammatory arthritis patients. The ESPOIR cohort study. Clin Exp Rheumatol 2009;27(1):84-91

18. Sharp JT, Angwin J, Boers M, Duryea J, Finckh A, Hall JR, Kauffman JA, Landewé R, Langs G, Lukas C, Moens HJ, Peloschek P, Strand CV, van der Heijde D. Multiple computer-based methods of measuring joint space width can discriminate between treatment arms in the COBRA trial – Update of an ongoing OMERACT project. J Rheumatol. 2009;36(8):1825-8

19. Landewé RB, Günther K, Lukas C, Braun J, Combe B, Conaghan PG, Dreinhöfer K, Fritschy D, Getty J, van der Heide HJ, Kvien TK, Machold K, Mihai C, Mosconi M, Nelissen R, Pascual E, Pavelka K, Pileckyte M, Puhl W, Punzi L, Rüther W, San-Julian M, Tudisco C, Westhovens R, Witso E, van der Heijde DM. EULAR/EFFORT Recommendations for the diagnosis and initial management of patients with acute or recent onset swelling of the knee. Ann Rheum Dis. 2010;69(1):12-9

20. Dias EM, Lukas C, Landewe RB, Fatenejad S, van der Heijde DM. Reliability and Sensitivity to change of the Simple Erosion Narrowing Score compared to the Sharp/van der Heijde method for scoring radiographs in rheumatoid arthritis. Ann Rheum Dis 2008;67(3):375-9

21. Morel J, Roubille C, Planelles L, Rocha C, Fernandez L, Lukas C, Hahne M, and Combe B. Serum levels of TNF family members APRIL and BLyS are inversely correlated in SLE. Ann Rheum Dis 2009 Jun;68(6):997-1002

22. Lukas C, Braun J, van der Heijde D, Hermann KG, Rudwaleit M, Ostergaard M, Oostveen A, O'Connor P, Maksymowych WP, Lambert RG, Jurik AG, Baraliakos X, Landewé R. ASAS/OMERACT MRI in AS Working Group. Scoring inflammatory activity of the spine by magnetic resonance imaging in ankylosing spondylitis: a multireader experiment. J Rheumatol 2007;34(4):862-70

23. Combe B, Landewé R, Lukas C, Bolosiu HD, Breedveld F, Dougados M, Emery P, Ferraccioli G, Hazes JM, Klareskog L, Machold K, Martin-Mola E, Nielsen H, Silman A, Smolen J, Yazici H. EULAR recommendations for the management of early arthritis: report of a task force of the European Standing Committee for International Clinical Studies Including Therapeutics (ESCISIT). Ann Rheum Dis 2007;66(1):34-45

24. Sharp JT, Angwin J, Boers M, Duryea J, von Ingersleben G, Hall JR, Kauffman JA, Landewe R, Langs G, Lukas C, Maillefert JF, Bernelot Moens HJ, Peloschek P, Strand V, van der Heijde D. Computer Based Methods for Measurement of Joint Space Width: Update of an Ongoing OMERACT Project. J Rheumatol 2007;34(4):874-83

25. van der Heijde D, Landewe R, Hermann KG, Rudwaleit M, Ostergaard M, Oostveen A, O'Connor P, Maksymowych WP, Lambert RG, **Lukas C**, Jurik AG, Boers M, Baraliakos X, Braun J. Is there a preferred method for scoring activity of the spine by magnetic resonance imaging in ankylosing spondylitis? J Rheumatol 2007;34(4):871-3

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26.**Lukas C**, Combe B, Morel J. Rheumatoid arthritis and the evolution of therapy: from symptomatic to bench-to-bedside biological drugs. Future Rheumatology 2007;2(2):143-52.

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Curriculum Vitae

Cédric Lukas was born February 20, 1976 in Mont-de-Marsan, France. He obtained his baccalaureate, scientific section, in 1994 and started on the same year his medical studies at Louis Pasteur University, in Strasbourg, France. He became a resident in medicine in November 2000 in Montpellier, with a graduation as a Medical Doctor, specialist in rheumatology in 2005. He also studied methodology and statistics at University Henri Poincare, in Nancy, and was graduated with a Master 2 degree in 2005.

He worked as a research fellow in the Department of Internal Medicine, division rheumatology, at Maastricht University, The Netherlands, from November 2005 to October 2007.

Since November 2008, he works as an assistant head physician in the department of rheumatology, University hospital Lapeyronie and Montpellier University 1 in Montpellier, France.