



English Version

REUMA ABROAD – PEDRO MACHADO

PHD DURATION: January 2010 to December 2012

INSTITUTION: Leiden University Medical Center, Leiden, The Netherlands

SUPERVISORS: Prof. Désirée van der Heijde, Prof. Robert Landewé, Prof. José A. P. da Silva

TOPIC: Outcomes research in spondyloarthritis

AIMS:

- 1) Development of skills in clinical epidemiology and biostatistics
- 2) Disease activity assessment in axial spondyloarthritis
- 3) Relationship between disease domains and outcomes in axial spondyloarthritis
- 4) Relationship between magnetic resonance imaging (MRI) inflammatory lesions and radiographic structural damage
- 5) Scoring methods for MRI inflammatory and structural lesions of the sacroiliac joints and the spine
- 6) The phenotypic spectrum in patients with early inflammatory back pain

OTHER PROJECTS:

- 7) “International recommendations on how to investigate and follow-up undifferentiated peripheral inflammatory arthritis” - International Fellow of this multinational project under the scope of the 3E (*Evidence, Experience, Exchange*) Initiative in Rheumatology, 2008/2009

FUTURE PERSPECTIVES:

To use the acquired knowledge and skills to promote clinical and translational research, to stimulate critical thinking and to develop quality and clinically relevant scientific projects. To promote multidisciplinary collaborations with other institutions, both at the national and international level.



Versão Portuguesa

REUMA ABROAD – PEDRO MACHADO

DOUTORAMENTO: Janeiro de 2010 a Dezembro de 2012

LOCAL: *Leiden University Medical Center, Leiden, Holanda*

ORIENTADORES: Prof. Désirée van der Heijde, Prof. Robert Landewé, Prof. José A. P. da Silva

TEMA: *Outcomes research in spondyloarthritis*

OBJECTIVOS GERAIS:

- 1) Desenvolvimento de aptidões em epidemiologia clínica e bioestatística
- 2) Instrumentos de avaliação da actividade da doença nas espondilartrites axiais
- 3) Avaliação da relação entre os vários domínios da doença (*outcomes*) nas espondilartrites axiais
- 4) Avaliação da relação entre as alterações inflamatórias na ressonância magnética e o dano estrutural radiográfico
- 5) Avaliação dos métodos de quantificação das lesões inflamatórias e estruturais na ressonância magnética da coluna vertebral e das articulações sacro-ilíacas
- 6) Estudo fenotípico em doentes com lombalgia inflamatória inicial

OUTROS PROJECTOS:

- 1) *“International recommendations on how to investigate and follow-up undifferentiated peripheral inflammatory arthritis” – International Fellow* deste projecto multinacional integrado na iniciativa 3E (*Evidence, Experience, Exchange*) em Reumatologia, 2008/2009

PERSPECTIVAS FUTURAS:

Tenciona utilizar os conhecimentos e competências adquiridos para fomentar a investigação clínica, promover o pensamento crítico e desenvolver projectos científicos de qualidade, nomeadamente de carácter multidisciplinar e de cooperação com outras instituições nacionais ou estrangeiras.

PUBLICAÇÕES RELACIONADAS:

1. Machado P, Landewe R, Lie E, et al. Ankylosing Spondylitis Disease Activity Score (ASDAS): defining cut-off values for disease activity states and improvement scores. *Ann Rheum Dis* 2011;70(1):47-53.
2. Machado P, Landewe R, van der Heijde D. Endorsement of the definitions of disease activity states and improvement scores for the Ankylosing Spondylitis Disease Activity Score (ASDAS): results from the Outcome Measures in Rheumatology (OMERACT) 10 conference. *J Rheumatol* 2011:in press.
3. Machado P, Landewe R, Braun J, et al. Both structural damage and inflammation of the spine contribute to impairment of spinal mobility in patients with ankylosing spondylitis. *Ann Rheum Dis* 2010;69(8):1465-70.
4. Machado P, Castrejon I, Katchamart W, et al. Multinational evidence-based recommendations on how to investigate and follow-up undifferentiated peripheral inflammatory arthritis: integrating systematic literature research and expert opinion of a broad international panel of rheumatologists in the 3E Initiative. *Ann Rheum Dis* 2011;70(1):15-24.
5. Machado P, Koevoets R, Bombardier C, et al. The value of magnetic resonance imaging and ultrasound in undifferentiated arthritis: a systematic review of the literature. *J Rheumatol* 2011: in press.
6. Koevoets R, Machado P, Bombardier C, et al. The value of conventional radiographs in undifferentiated arthritis: a systematic literature review. *J Rheumatol* 2011: in press.
7. Hazlewood G, Aletaha A, Bijlsma JWJ, Machado P, et al. Algorithm for the identification of undifferentiated peripheral inflammatory arthritis: A multinational collaboration through the 3E initiative. *J Rheumatol* 2011: in press.



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