

Novel biomarkers improve diagnosis in rheumatoid arthritis

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Data presented at EULAR 2013, the Annual Congress of the European League Against Rheumatism, show that novel antibody biomarkers could significantly improve diagnosis in rheumatoid autoantibodies as biomarkers for early and arthritis (RA).

Four candidate biomarkers - UH-RA.1, UH-RA.9, UH-RA.14 and UH-RA.21 – were investigated; as a OP0181 group they demonstrated 85% specificity for RA, and were present in both early and seronegative disease, with 36% of early RA and 24% of RF- and ACCP -negative patients testing positive.

RA is a chronic autoimmune disease characterised 3. Morelli J . New treatment approach shows by inflammation of the joints and tendons. As the disease progresses it can cause pain, stiffness, joint destruction and deformity, and reduce quality of life, life expectancy and physical function.

"Early detection is imperative; if treated early, patients have a more than 50% chance of achieving remission³ – yet one third of patients test Rheumatism negative to RF and ACCP. Antibody reactivity against our candidate biomarkers in both early and seronegative RA patients implies that they could significantly help to improve diagnosis and patient outcomes," said lead author of the study Liesbeth M De Winter, Biomedical Research Institute, Hasselt University, Diepenbeek, Belgium.

Antibody reactivity was measured in a cohort of 127 RA patients, 97 healthy controls, 90 rheumatic controls (including psoriatic arthritis, ankylosing spondylitis, osteoarthritis and Sjögren's syndrome patients) and a validation cohort of 165 RA patients. Amongst the 292 RA patients, 34% could not be identified using the current diagnostic biomarkers RF and ACCP.

"These data show that our candidates, in combination with existing biomarkers, could help close the diagnostic gap in RA. In addition, significant associations with inflammatory factors and the presence of erosions indicate a tangible

prognostic potential," De Winter concluded.

More information: 1.De Winter L et al., New seronegative rheumatoid arthritis [abstract]. EULAR Annual European Congress of Rheumatology; 12-15 June 2013; Madrid, Spain. Abstract nr.

2. Somers K. Novel autoantibody markers for early and seronegative rheumatoid arthritis. Autoimmun. 2011;36(1):33-46

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