

Annual European Congress of Rheumatology

Annual European Congress of Rheumatology (EULAR 2018)

Amsterdam, The Netherlands, 13-16 June 2018

NEW TREATMENT LENEBASUM SHOWS PROMISE FOR DIFFUSE CUTANEOUS SYSTEMIC SCLEROSIS (dcSSc)

Only half of people diagnosed with dcSSc will survive for 10 years or more

Amsterdam, The Netherlands, 13 June 2018: The results of an open label extension of a phase II study presented today at the Annual European Congress of Rheumatology (EULAR 2018) demonstrate that lenabasum continues to have acceptable safety and tolerability in diffuse cutaneous systemic sclerosis (dcSSc) with no severe or serious adverse events (AE).¹

"There is a critical unmet need for safe and effective therapeutics for patients with dcSSc," said Professor Thomas Dörner, Chairperson of the Abstract Selection Committee, EULAR. "These results demonstrate a significant step forward in the clinical development of a potentially impactful treatment for people suffering with this devastating disease."

Systemic sclerosis is a rare but serious autoimmune disease which causes hardening and swelling of the skin, as well as joint pain, digestive problems, lung disease, and sometimes problems with the heart and kidneys. The disease occurs in around 30 people per million population per year.² The diffuse cutaneous subtype (dcSSc) is even rarer, affecting just one in every four people with the disease. It is linked with early damage to internal organs, as well as painful skin thickening that quickly gets worse. Only half of people diagnosed with dcSSc will survive for 10 years or more.³

Medicines for dcSSc are very limited, immunosuppressants are sometimes used although there have been relatively few trials in dcSSc patients specifically because the disease is so rare and difficult to research.⁴

"Our results are very encouraging and reinforce the positive findings from the double-blinded placebo-controlled part of the study with regard to safety and tolerability," said Robert Spiera, M.D., Director of the Scleroderma and Vasculitis Program at Hospital for Special Surgery, Weill Cornell Medical College in New York City and principal investigator. "We look forward to continuing our investigations to assess the role of lenebasum as a new treatment option for patients with dcSSC."

Lenabasum (JBT-101) is a selective cannabinoid receptor type 2 agonist that activates resolution of innate immune response in humans and reduces inflammation and fibrosis in animal models of SSc. It is a synthetic, oral, non-immunosuppressive small molecule.⁵

The results of the initial phase II trial demonstrated that lenabasum had acceptable safety and tolerability in dcSSc and demonstrated consistent evidence of clinical benefit. In addition,

changes in gene expression were shown to be consistent with biologic effects of lenabasum on pathways relevant to SSc.⁶

Thirty-six patients, who completed the phase II trial, enrolled into the one year open-label extension (OLE) to receive lenabasum 20mg twice a day. Results suggested improvement in multiple efficacy outcomes measured both from the start of the original study and the OLE. In the 25 subjects who completed a year in the OLE, the mean improvements from the study start included an improvement in ACR CRISS score* by 56%. There was also a reduction in modified Rodnan Skin Score, HAQ-DI†, Physician Global Assessment, and 5-D Itch Questionnaire by 8.6, 0.14, 0.9, and 2.3 respectively. Forced vital capacity percentage predicted was stable from study start with mean change of 0.4%.

The mean duration of treatment in the OLE was 45 weeks with 19 patients completing 60 weeks of treatment. Three subjects discontinued the trial, two due to AEs and one withdrew consent. AEs occurred in 33/36 subjects in the OLE, however only seven had AEs related to lenabasum (none of which were severe). In total, one subject had an AE considered life threatening, three severe, 21 moderate, and eight mild. One subject developed renal crisis involving two severe and one life-threatening/serious AE (deemed unrelated to lenabasum). Most common AEs across all subjects were upper respiratory tract infection (22%), urinary tract infection (14%), diarrhoea (11%), skin ulcers (11%), and mild intermediate dizziness (8%).¹

An international phase III clinical trial of lenabasum has been initiated with results expected in the first half of 2020.⁷

Abstract number: OP0006

-ENDS-

NOTES TO EDITORS

For further information on this study, or to request an interview with the study lead, please do not hesitate to contact the EULAR Press Office:

Email: eularpressoffice@ruderfinn.co.uk
Telephone: +44 (0) 20 7438 3084

Twitter: @EULAR_Press
YouTube: Eular Press Office

About Rheumatic and Musculoskeletal Diseases

Rheumatic and musculoskeletal diseases (RMDs) are a diverse group of diseases that commonly affect the joints but can affect any organ of the body. There are more than 200 different RMDs, affecting both children and adults. They are usually caused by problems of the immune system, inflammation, infections or gradual deterioration of joints, muscle and

^{*} American College of Rheumatology Composite Response Index in dcSSc (ACR CRISS) score

[†] Health Assessment Questionnaire Disability Index (HAQ-DI)

bones. Many of these diseases are long term and worsen over time. They are typically painful and limit function. In severe cases, RMDs can result in significant disability, having a major impact on both quality of life and life expectancy.⁸

About 'Don't Delay, Connect Today!'

'Don't Delay, Connect Today!' is a EULAR initiative that unites the voices of its three pillars, patient (PARE) organisations, scientific member societies and health professional associations - as well as its international network - with the goal of highlighting the importance of early diagnosis and access to treatment. In the European Union alone, over 120 million people are currently living with a rheumatic disease (RMD), with many cases undetected. The 'Don't Delay, Connect Today!' campaign aims to highlight that early diagnosis of RMDs and access to treatment can prevent further damage, and also reduce the burden on individual life and society as a whole.

About EULAR

The European League against Rheumatism (EULAR) is the European umbrella organisation representing scientific societies, health professional associations and organisations for people with RMDs. EULAR aims to reduce the burden of RMDs on individuals and society and to improve the treatment, prevention and rehabilitation of RMDs. To this end, EULAR fosters excellence in education and research in the field of rheumatology. It promotes the translation of research advances into daily care and fights for the recognition of the needs of people with RMDs by the EU institutions through advocacy action.

To find out more about the activities of EULAR, visit: www.eular.org.

References

- ¹ Spiera R, Hummers L, Chung L, *et al.* Safety and efficacy of lenabasum (JBT-101) in diffuse cutaneous systemic sclerosis subjects treated for one year in an open-label extension of trial JBT101-SSC-001. EULAR 2018; Amsterdam: Abstact OP0006.
- ² Michigan Medicine. The department of internal medicine. Scleroderma program, Division of rheumatology. Available at http://www.med.umich.edu/scleroderma/patients/scleroderma.htm. [Last accessed June 2018].
- ³ Herrick AL, Pan X, Peytrignet S, *et al.* Treatment outcome in early diffuse cutaneous systemic sclerosis: the European Scleroderma Observational Study (ESOS). *Ann Rheum Dis.* 2017;76(7):1207-18.
- ⁴ Herrick AL, Pan X, Peytrignet S, *et al.* Treatment outcome in early diffuse cutaneous systemic sclerosis: the European Scleroderma Observational Study (ESOS). *Ann Rheum Dis.* 2017;76(7):1207-18.
- ⁵ Spiera R, Hummers L, Chung L, *et al.* Safety and efficacy of lenabasum (JBT-101) in diffuse cutaneous systemic sclerosis subjects treated for one year in an open-label extension of trial JBT101-SSC-001.
- ⁶ Spiera RF, Hummers LK, Chung L, *et al.* A phase 2 study of safety and efficacy of anabasum (JBT-101), a cannabinoid receptor type 2 agonist, in diffuse cutaneous systemic sclerosis [abstract]. *Arthritis Rheumatol.* 2017:69(suppl 10).
- ⁷ Trial to Evaluate Efficacy and Safety of Lenabasum in Diffuse Cutaneous Systemic Sclerosis (RESOLVE-1). ClinicalTrials.gov Identifier: NCT03398837.
- ⁸ van der Heijde D, *et al.* Common language description of the term rheumatic and musculoskeletal diseases (RMDs) for use in communication with the lay public, healthcare providers and other stakeholders endorsed by the European League Against Rheumatism (EULAR) and the American College of Rheumatology (ACR). *Annals of the Rheumatic Diseases*. 2018;doi:10.1136/annrheumdis-2017-212565. [Epub ahead of print].
- ⁹ EULAR. 10 things you should know about rheumatic diseases fact sheet. Available
- at: https://www.eular.org/myUploadData/files/10%20things%20on%20RD.pdf [Last accessed April 2018].