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Press release

TWINSS: the efficacy and safety of subcutaneous iscalimab in Sjögren's disease

Teams from the rheumatology department at the Hôpital Bicêtre AP-HP, Université Paris-Saclay, Inserm and the University of Birmingham have taken part in a clinical trial to study the efficacy and safety of subcutaneous iscalimab in Sjögren's disease. The results of the primary endpoint at week 24, co-authored by Professors Xavier Mariette and Benjamin A Fisher, were published on 31 July 2024 in <u>The Lancet</u>.

Sjögren's disease is a rare chronic autoimmune disorder for which no targeted therapy has yet been approved. Patients with this disease mainly complain of chronic dry eyes and mouth, joint pain and fatigue, and may present numerous complications in different organs, including the risk of lymphoma, a cancer of the lymph nodes.

The Phase II TWINSS trial, promoted by Novartis, was conducted by an international team of researchers in 23 different countries, and included 273 patients in two cohorts. It assessed the safety and efficacy of multiple doses of iscalimab, a monoclonal antibody¹ that recognises the CD40 molecule, essential for B lymphocyte activation.

In the first cohort, patients (173) with both moderate and high systemic activity and significant symptoms were randomised between placebo and iscalimab 150 mg, 300 mg and 600 mg. In the second cohort, patients (100) with weak systemic activity but significant symptoms were randomised between placebo and iscalimab 600 mg.

In total, serious adverse events were reported in eight patients (6%) in the iscalimab-treated groups and in one patient (2%) in the placebo-treated group up to week 24. In the first cohort, systemic disease activity improved with all three drug doses, significantly compared to placebo for the 150 mg and 600 mg doses. In the second cohort, a trend towards improvement in disease symptoms was observed with iscalimab compared to placebo. Both stimulated and unstimulated salivary flow improved with iscalimab.

This study shows the importance of the CD40/CD40 ligand pathway in Sjögren's disease. 1. Antibodies produced by cells in culture to treat specific diseases

References: Benjamin A Fisher, Xavier Mariette, Athena Papas, Thomas Grader-Beck, Hendrika Bootsma, Wan-Fai Ng, P L A van Daele, Stephanie Finzel, Ghaith Noaiseh, Sergio Elgueta, Josef Hermann, Sara S McCoy, Esen Akpek, Arthur Bookman, Monika Sopala, Michela Montecchi-Palmer, Wen-Lin Luo, Cornelia Scheurer, Wolfgang Hueber - <u>The Lancet</u>

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