



However, the study failed to reach its primary end point because no difference was found in flares at week 48 between patients randomized to placebo and those given GLM (52.6% vs 59.0%;  $P=.414$ ). The study also found no difference in patients with inactive disease from weeks 16 through 48 between GLM and placebo.

On secondary analysis, the study found that only patients with elevated baseline C-reactive protein level had a higher chance of flaring at week 48. However, baseline CRP levels did not influence the response rates to GLM.

In conclusion, the study failed to meet the primary end point as a result of differences in flare rate between the GLM and placebo arms in part 2 of the study. Because of these negative findings, Dr Brunner said that the development program for GLM in JIA has been discontinued.

## MEASURE 1: Secukinumab an Effective Treatment for Active AS

Written by Maria Vinall

Secukinumab, a high-affinity fully human monoclonal immunoglobulin G 1K antibody that selectively binds to and inhibits interleukin-17A, improves the signs and symptoms of active ankylosing spondylitis (AS). Dominique Baeten, MD, PhD, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands, presented the results of the 16-Week Efficacy and 2-Year Long-term Safety and Efficacy of Secukinumab in Patients With Active Ankylosing Spondylitis trial [MEASURE 1; NCT01358175], which evaluated intravenous loading and maintenance dosing of secukinumab.

The study comprised patients with radiologically confirmed AS with an inadequate response to or intolerance of nonsteroidal anti-inflammatory drugs and/or those who were tumor necrosis factor (TNF) naïve or had an inadequate response or intolerance to  $\leq 1$  TNF inhibitor. Additional requirements included a Bath Ankylosing Spondylitis Disease Activity Index (BASDAI) score  $\geq 4$  (0 to 10 scale) and back pain visual analog scale score  $> 40$  (0 to 100 mm). Patients with total spinal ankylosis, active infections, or ongoing inflammatory conditions other than AS were excluded.

Patients were randomized to placebo or 1 of 2 secukinumab arms; at week 16, patients receiving placebo were separated into responder and nonresponder arms. Randomization was stratified according to whether patients had previous intolerance or inadequate response to anti-TNF therapy or were anti-TNF naïve.

The primary end point was Assessment of Spondyloarthritis International Society (ASAS) 20 response at

week 16. Secondary end points at week 16 were ASAS 40, high-sensitivity C-reactive protein results, ASAS 5/6, BASDAI, Short Form 36 physical component summary, AS quality of life, ASAS partial remission, and safety.

The study enrolled 371 patients, 122 to 125 in each arm. Baseline demographics and clinical characteristics were well balanced across treatment groups.

ASAS 20 response at week 16 was 60.8% for the 150-mg secukinumab dose group and 59.7% for the 75-mg group vs 28.7% for the placebo group. A significant difference between each treatment group and placebo was seen at week 1 and sustained out to week 16, indicating a rapid onset of action for this drug ( $P < .01$ ).

Similar values were noted for ASAS 40 (150 mg, 41.6%; 75 mg, 33.1%; vs 13.1% for placebo;  $P < .01$ ), again starting at week 1. All secondary end points were significantly improved for both treatment arms compared with placebo.

Data at week 52 were also presented. ASAS 20 response was sustained out to week 52 (150 mg, 76.7%; 75 mg, 71.3%). ASAS 40 responses were similar (150 mg, 62.1%; 75 mg, 49.1%). BASDAI data indicated a rapid improvement at week 1 that was sustained out to week 52 (150 mg,  $-3.19$ ; 75 mg,  $-2.86$ ; vs  $-0.59$  for placebo;  $P < .001$ , at week 16).

Secukinumab (75 and 150 mg) significantly reduced inflammation of the sacroiliac joint (Berlin Sacroiliac Joint Total Edema Score) as assessed by magnetic resonance imaging at week 16 ( $P < .01$  vs placebo). ASAS 20 responses at week 16 were improved regardless of prior use of anti-TNF therapy.

Secukinumab was well tolerated with no unexpected safety findings. Common adverse events included nasopharyngitis, headache, diarrhea, and upper respiratory tract infections, all of which occurred somewhat less in the treatment groups compared with placebo. There were few discontinuations due to treatment. There were 3 cases of candida infection and 1 case of grade 4 neutropenia. Two patients experienced low levels of treatment-emergent antiseckinumab antibodies.

This is the first non-anti-TNF biologic therapy to demonstrate efficacy in a phase 3 clinical AS trial. Regardless of prior anti-TNF exposure, clinical benefit was observed.

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