

Secukinumab effect across the axial spondyloarthritis spectrum at 1 year

Full abstract title: Efficacy of Secukinumab in TNF-naïve Patients Across the Axial Spondyloarthritis Spectrum over 52 weeks: A Post Hoc Analysis of the MEASURE and PREVENT Clinical Trials

Authors: Magrey M, Walsh J, Huang F, et al. Date: June 2021

Please note that this summary only contains information from the full EULAR 2021 scientific abstract

and selected supporting references. The results of this study may not reflect those of other studies. This summary is not intended to provide medical advice.

To investigate the effect of secukinumab on patients with axial spondyloarthritis over a period of 52 weeks (one year), from data across six different clinical trials.

Why was this study done?

Axial spondyloarthritis (axSpA) affects approximately 3.5 million people in the top five European countries and US.1It is a group of long-term inflammatory diseases, which occur when the body's immune system

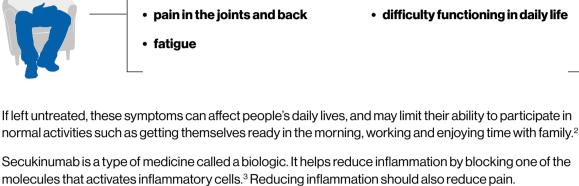
is overactive, causing inflammation around the spine and pelvis, leading to back pain. Inflammation can be good (eg, in fighting infection), but it can also become a problem if it occurs more than needed or without a good reason. The axSpA spectrum includes ankylosing spondylitis (AS), where joint damage is generally visible on X-ray, and non-radiographic axial spondyloarthritis (nr-axSpA), where joint damage is not visible on X-ray.1

What did this study look at?

This study looked at safety data with more than 5 years of secukinumab treatment from 28 clinical trials

across psoriasis, psoriatic arthritis (PsA) and AS, in addition to real-world data. Because the data come from many different trials, as well as collected in the real-world setting, it is known as 'pooled' data.





What did this study look at?

The study looked at pooled data from the Phase 3 MEASURE and PREVENT clinical trials to see how patients with axSpA responded after being treated with secukinumab over a period

The MEASURE trials looked at the effect of secukinumab on people with AS and the PREVENT trial looked at the effect of secukinumab on people with nr-axSpA. By looking at different trials and grouping the results together, we can explore the effects of secukinumab on a broader group of people and across the axSpA

of 52 weeks.

disease spectrum. The studies assessed the percentage of people achieving improvements in their disease severity after 16 weeks and 52 weeks of being treated with secukinumab. One scale of severity used was the Assessment in

many patients had a 40% improvement in their symptoms, which is abbreviated to ASAS40.

6

clinical trials with

secukinumab

To check if any improvement was because of secukinumab, rather than the natural fluctuation of the disease, results were compared with how many patients had an improvement when given a 'dummy' injection containing no treatment (a placebo). This study analyzed the results of the MEASURE and PREVENT trials after their first stages were finished and is therefore called a "post hoc analysis."

Ankylosing Spondylitis response criteria (ASAS), which is a scale of symptoms that assesses how the disease generally affects the patient's life, pain, ability to do things (function) and inflammation. The study looked at how

Design of the study

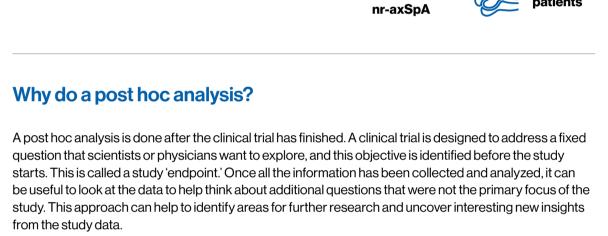
trials in

52

52

patients

1558



by 16 weeks and these were sustained for the full 52 weeks for patients with AS or nr-axSpA. 0 16

4 out of 10 patients treated with 150 mg

5 out of 10 patients treated with 150 mg secukinumab showed an ASAS40 response

overall morning stiffness.

Glossary

Ankylosing

[an-kih-low-sing]:

fusion of the bones.

Why does this matter?

symptoms (an ASAS40 response)

secukinumab showed a 40% improvement in their

After 16 weeks

0

What did this study find?

ASAS40 response

Only 2 out of 10 patients given placebo had an

The study found that there were significant improvements across all measures of disease severity

After 52 weeks

The trial also showed that patients treated with secukinumab experienced less night-time back pain and

This analysis has shown that secukinumab has a favorable and well-established safety profile up

Clinical trials typically only follow patients for a few years and include patients who meet certain criteria,

On testing of these results, secukinumab was found to have a significantly greater effect than placebo.

so long-term safety data are important to collect, especially from patients in the "real world". The study showed secukinumab treatment can significantly reduce the severity of axSpA symptoms. **Safety**

abnormal stiffening and immobility of a joint due to

ASAS40 (Assessment in SpondyloArthritis

disease generally affects the patient's life, pain, ability to do things (function) and inflammation.

Axial spondyloarthritis (axSpA) [ax-eel spon-dill-lo-ar-thri-tiss]:

a painful, chronic (long term) inflammatory

disease that primarily affects the spine and

sacroiliac (where the spine joins the pelvis) joints.

involves a variety of cells that release different substances to help the body fight the infection. In some diseases, the immune cells can attack

to 5 years across 3 of its approved indications (psoriasis, PsA and AS).

Secukinumab was well-tolerated with no new or unexpected side effects.

40%) response: undetected by X-ray. a ≥40% improvement in three out of four areas Placebo: of a scoring system designed to rate the severity a substance with no active component which has of axial spondyloarthritis. It includes how the

inflammation of the spine or vertebrae. Inflammation: the body's immune response to an irritant, which

Who sponsored this study? Novartis Pharma AG, Basel, Switzerland sponsored both this study and the writing of this plain language summary.

Biologic medicine: a treatment made using living organisms, rather Sponayıltıs than being chemically synthesized. [spon-dill-eye-tiss]:

the body by mistake - this is known as an autoimmune disease.

Significant(ly): statistically, the difference between the groups

is unlikely to have occurred by chance. This

medication given to the patients.

difference is therefore likely to be related to the

Non-radiographic (nr-):

spondyloarthritis):

no therapeutic effect.

like X-rays.

Post hoc: after the event.

may not appear on imaging techniques,

nr-axSpA (non-radiographic axial

Further information

More on the MEASURE studies can be found here:

- MEASURE 1-2: https://www.nejm.org/doi/full/10.1056/nejmoa1505066
- MEASURE 3: https://arthritis-research.biomedcentral.com/articles/10.1186/s13075-017-1490-y MEASURE 4: https://pubmed.ncbi.nlm.nih.gov/30121827/
- MEASURE 5: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7722578/ More on the PREVENT study can be found here: https://onlinelibrary.wiley.com/doi/full/10.1002/art.41477

1. Yu Q, et al. Axial Spondyloarthritis: Disease Landscape & Forecast. February 2019.

References

- 2. Mease PJ, et al. Arthritis Care Res (Hoboken). 2018;70(11):1661-1670. 3. Blair HA. Drugs. 2019;79(4):433-443.
- 4. Baeten D, et al. N Engl J Med. 2015;373(26):2534-2548 (MEASURE 1-2). 5. Pavelka K, et al. Arthritis Res Ther. 2017;19(1):285 (MEASURE 3). 6. Kivitz AJ, et al. Rheumatol Ther. 2018;5(2):447-462 (MEASURE 4). 7. Feng H, et al. Chin Med J. 2020;133(21):2521-2531 (MEASURE 5).

8. Deodhar A, et al. Arthritis Rheumatol. 2021;73(1):110-120 (PREVENT).