

Secukinumab as a treatment for psoriatic arthritis predominantly affecting the joints of the back and neck (axial joints)

Full abstract title: Secukinumab provides sustained improvements in clinical and imaging outcomes in patients with psoriatic arthritis and axial manifestations: Results from the **MAXIMISE** trial

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Please note that this summary only contains information from the full ACR 2020 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 explore whether secukinumab can treat a type of psoriatic arthritis (PsA) that predominantly affects the back and neck.

Why was this study done?

PsA is a type of inflammatory arthritis that occurs in some patients with psoriasis. Inflammation is one way the body fights infection, but it can also become a problem if it occurs more than needed or happens

without a good reason. Research suggests continued inflammation from PsA can result in joint damage In PsA, inflammation results in swollen and painful joints and tendons, and can happen in any area of the body. An effective treatment may be able to peristently dampen down inflammation to relieve this

swelling and pain, and reduce the risk of joint damage occurring later on. PsA can affect the back and neck, which are known as the axial joints. Axial disease is thought to affect 25-70% of patients with PsA, which may add up to 35 million people worldwide. 23

The symptoms of PsA with axial disease include:3,4



• stiffness in the morning

• pain in the joints and back

- · problems with self-care · feelings of anxiety/depression

affecting work and other activities

44

48 52

52

impaired physical function

What did this study look at?

Secukinumab is a type of medication called a biologic. It helps reduce inflammation by blocking one of

The study looked at improvement in the severity of axial manifestations in patients with PsA after being treated with secukinumab for 12 weeks (3 months) and up to 52 weeks (1 year).

the proteins that activates inflammatory cells.5

Improvement was measured using different methods. One of these is the Assessment in Ankylosing Spondylitis (ASAS) response criteria, which is a scale of symptoms including how the inflammation of the axial joints affects the patient's life, ability to do things (function) and pain. The study looked at how many

patients had a 20% improvement in their symptoms. This is abbreviated as ASAS20, with measurements taken at the start, 1 month, 3 months and at 1 year. Patients were also asked to assess how much pain they had in their spine using a scale that allows you to give a score from 0 (no pain) to 100 (as bad as it could be). In addition, the study looked at what was happening to the inflammation of the spine using a scanning technique called magnetic resonance imaging (MRI). To check if any improvement was the result of treatment with secukinumab, the proportion of patients

an ASAS20 response that were given an injection containing no treatment (a placebo). After 12 weeks of no treatment, those in the placebo group could then receive secukinumab treatment.

with an ASAS20 response after taking secukinumab was compared with the proportion of patients with

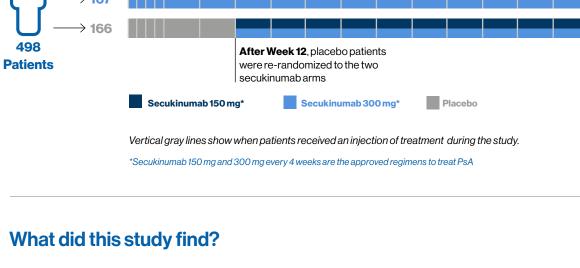
The patients in this study had previously tried to relieve their symptoms with at least two anti-inflammatory pain medications but were still experiencing a pain score of more than 40 on the 0-100 pain scale. Design of the study

WFFKS

12



165



ASAS20

Secukinumab 150 mg (7 out of 10 patients)

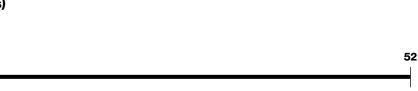
After 12 weeks

Number of people achieving ASAS20 at Week 12 and ASAS20 and ASAS40 at Week 52



After 52 weeks

ASAS20

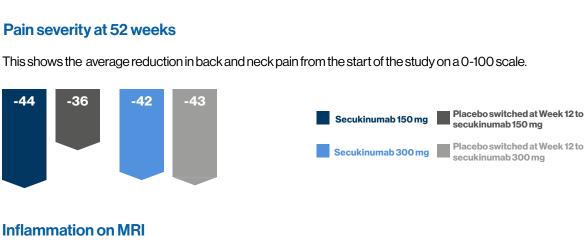


ASAS40

Secukinumab 300 mg (6 out of 10 patients)

Secukinumab 150-300 mg (8 out of 10 patients) When statistical testing was done, secukinumab was found to have a significantly greater effect than placebo.

Secukinumab 150-300 mg (6 out of 10 patients)



At 52 weeks, patients who had received secukinumab treatment showed a reduction in inflammation at the

The safety of secukinumab was consistent with previous studies in psoriasis and PsA.

Why does this matter?

form of PsA and back pain.

Safety

axial skeleton (including the entire spine) on an MRI scan.

secukinumab from the start of the study, with similar improvements seen in inflammation a year after the initiation of the study. Stronger results were seen in patients switching to secukinumab 300 mg versus 150 mg.

To date, there have been limited studies investigating biologic use in these patients. This study provides additional information about lasting treatments that could help doctors determine treatment choices.3

This study showed that secukinumab provided long-term improvement in patients with the axial

Patients who began treatment after 3 months of placebo caught up to those who were treated with

Glossary ASAS20 (Assessment in SpondyloArthritis Inflammation:

a scoring system designed to rate the severity of inflammation in axial joints in PsA. It includes how the inflammation of the axial joints affects the

20%) response:

40%) response: a≥40% improvement in three out of four areas of a scoring system designed to rate the severity of inflammation in axial joints in PsA. It includes how the inflammation of the axial joints affects the

patient's life, ability to do things (function) and pain.

ASAS40 (Assessment in SpondyloArthritis

a ≥20% improvement in three out of four areas of

patient's life, ability to do things (function) and pain.

Axial [ax-eel]:

affecting the back, ribcage, head and neck. **Biologic:** than being chemically synthesized.

Significant(ly):

silvery scales.

autoimmune disease.

[saw-ree-at-ik ahr-thry-tis]:

Psoriatic arthritis

statistically, the difference between the groups is unlikely to have occurred by chance. This difference is therefore likely to be related to the treatment given to the patients.

the body's immune response to an irritant, which

involves a variety of cells that release different

substances to help the body fight the infection.

In some diseases, the immune cells can attack

a form of joint inflammation that affects some people who have psoriasis - a condition that

features red patches of skin topped with

the body by mistake - this is known as an

a treatment made using living organisms, rather

Novartis Pharma AG, Basel, Switzerland sponsored both this study and the writing of

Who sponsored this study?

Further information More on the MAXIMISE study can be found here:

https://clinicaltrials.gov/ct2/show/NCT02721966

this plain language media summary.

- References 1. American College of Rheumatology. Psoriatic Arthritis. Available from: https://www.rheumatology.org/I-Am-A/Patient-
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