

Chinese herbal remedy as good as methotrexate for treating rheumatoid arthritis

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A traditional Chinese herbal remedy used to relieve joint pain and inflammation works as well as methotrexate, a standard drug treatment that is frequently prescribed to control the symptoms of active rheumatoid arthritis, reveals research published online in the *Annals of the Rheumatic Diseases*.

Furthermore, combining the [herbal remedy](#) with methotrexate—the disease modifying drug (DMARD) most commonly used to treat [rheumatoid arthritis](#)—was more effective than treatment with methotrexate alone, the findings showed.

Tripterygium wilfordii Hook F, or TwHF for short, is used in traditional Chinese medicine to treat [joint pain](#), swelling, and inflammation, and is already approved for the treatment of rheumatoid arthritis in China.

The research team randomly assigned 207 patients with active rheumatoid arthritis to one of three treatment groups: methotrexate 12.5 mg once a week; or TwHF 20 mg three times a day; or a combination of the two over a period of 24 weeks.

The researchers wanted to find out which of these approaches would sufficiently alleviate symptoms to reach an ACR 50 response.

This indicates a 50% improvement in the number of tender or swollen joints and other criteria including pain, disability, and the doctor's assessment of disease severity. It's a measure defined by the American College of Rheumatology.

Most (174; 84%) of the participants completed the full 24 weeks of the trial. The proportion of patients achieving ACR 50 was almost 46.5% in those

treated with methotrexate alone; 55% in those treated with TwHF alone; and just under 77% in those treated with both.

Similar clinically significant patterns of improvement in disease activity and remission rates also occurred among the three treatment groups.

There was little difference between the frequency or type of side effects experienced in the different treatment groups, although the number of women who developed irregular periods was slightly higher in those treated with TwHF.

More than 300 compounds have been identified in TwHF, including diterpenoids, which experimental research suggests can suppress genes controlling inflammation and dampen down the immune response, the authors point out.

And an extract of the root has recently been investigated for its potential to treat autoimmune diseases and some cancers, say the researchers.

They caution that 24 weeks is too short a time to evaluate disease progression, and that the dose of [methotrexate](#) used in the trial is lower than that typically given to patients in the West.

But they suggest that TwHF could be a promising approach to the [treatment](#) of active rheumatoid arthritis, particularly as not all patients respond to DMARDs, and because these drugs are expensive.

More information: Comparison of *Tripterygium wilfordii* Hook F with methotrexate in the treatment of active rheumatoid arthritis (TRIFRA): a randomised, controlled clinical trial, Online First, [DOI: 10.1136/annrheumdis-2013-204807](https://doi.org/10.1136/annrheumdis-2013-204807)

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