

Rheumatoid Arthritis Treatment

- Prevalence and Impact of Antibodies Against TNF Alpha Inhibitors in Rheumatoid Arthritis and Spondyloarthritis: Systematic Review and Meta- Analysis with Subgroup Analysis
- Hemophagocytic Lymphohistiocytosis Triggered by Acute Interstitial Pneumonitis in a Young Woman With Rheumatoid Arthritis
- The impact of comorbidities on the prognosis of patients with septic arthritis
- Investigating the underlying mechanisms of the ethanol extract of saussureae involucratae herba in anti-rheumatoid arthritis effect based on sphingolipidomics
- Clinical Outcomes of Methotrexate Usage in Postoperative Arthroplasty Patients: An Evidence Based Review
- Targeting fibroblast activation protein in rheumatoid arthritis: from molecular imaging to precision therapeutics
- Beneficial effects of *Elaeagnus rhamnoides* (L.) A. Nelson and its most abundant flavonoids on the main mechanisms related to diabetic bone disease
- Lyme Borreliosis Incognito-Expanding the Spectrum of Invisible Dermatoses

Treatment focuses on reducing inflammation, managing symptoms, and preventing joint destruction.

1. Medications

a. Disease-modifying antirheumatic Drugs (DMARDs)

Conventional DMARDs (first-line treatment)

Methotrexate (most commonly used)

Leflunomide

Sulfasalazine

Hydroxychloroquine

Targeted Synthetic DMARDs

Janus kinase (JAK) inhibitors: Tofacitinib, Baricitinib, Upadacitinib

b. Biologic DMARDs (Biologics)

TNF Inhibitors:

Etanercept

Infliximab

Adalimumab

Golimumab

Certolizumab

Non-TNF Biologics:

Abatacept (T-cell inhibitor)

Rituximab (B-cell inhibitor)

Tocilizumab, Sarilumab (IL-6 inhibitors)

c. Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)

Ibuprofen

Naproxen

Celecoxib (COX-2 inhibitor)

d. Corticosteroids

Prednisone (used for flare-ups and short-term symptom control)

2. Lifestyle Modifications

a. Exercise & Physical Therapy

Low-impact activities (e.g., swimming, yoga, cycling)

Strength training to support joint stability

Range-of-motion exercises

b. Diet & Nutrition

Anti-inflammatory diet (Mediterranean diet, omega-3 fatty acids from fish, nuts, and seeds)

Avoid processed foods and excess sugar

c. Weight Management

Reducing excess weight can decrease stress on joints and inflammation.

d. Smoking Cessation

Smoking worsens RA and reduces medication effectiveness.

3. Alternative & Supportive Therapies

Acupuncture

Massage therapy

Heat & cold therapy

Mind-body techniques (meditation, Tai Chi)

Supplements (turmeric, vitamin D, omega-3s)

4. Surgery (For Severe Cases)

Synovectomy (removal of inflamed joint lining)

Joint replacement surgery (hip, knee, or hand joint replacement)

Joint fusion ([Arthrodesis](#))

5. Regular Monitoring & Early Treatment

Early diagnosis and aggressive treatment are essential to prevent irreversible joint damage and maintain function.

Treatments for [rheumatoid arthritis](#) include both [medication](#) and non-pharmacological measures - the goal being to control joint [inflammation](#) and prevent [joint](#) damage and disability. Non-pharmacological treatment includes physical therapy, splints and braces, occupational therapy and dietary changes but these do not stop the progression of joint destruction. Painkillers and anti-inflammatory drugs, including steroids, suppress symptoms, but do not stop the progression either. Disease-modifying antirheumatic drugs (DMARDs) may slow or halt the progress of the disease. Biological DMARDs like anti-TNF agents are effective but usually avoided in persons with active disease or hypersensitivity to these agents. They have been shown to decrease the number of tender or swollen joints and the pain and disability due to the disease but there is little data about side effects. Alternative medicine is not supported by any evidence.

RA affects between 0.5 and 1% of adults in the developed world with between 5 and 50 per 100,000 people newly developing the condition each year. Onset is most frequent during middle age, but people of any age can be affected. The name is based on the term "rheumatic fever", an illness which includes joint pain and is derived from the Greek word ῥεύμα-rheuma (nom.), ῥεύματος-rheumatos (gen.) ("flow, current"). The suffix -oid ("resembling") gives the translation as joint inflammation that resembles rheumatic fever. The first recognized description of RA was made in 1800 by Dr. Augustin Jacob Landré-Beauvais (1772–1840) of Paris.

[Anethole](#), a prominent compound derived from fennel (*Foeniculum vulgare*), possesses a spectrum of therapeutic properties, including anti-arthritis, anti-inflammatory, [antioxidant](#), and tumor-suppressive effects. However, its specific impact on RA remains underexplored. A study sought to uncover the potential therapeutic value of anethole in treating RA by employing an [H2O2](#)-induced inflammation model with HIG-82 [synovial cells](#). The results demonstrated that exposure to [H2O2](#) induced the [inflammation](#) and apoptosis in these cells. Remarkably, anethole treatment effectively countered these inflammatory and apoptotic processes triggered by H_2O_2 . Moreover, they identified the [aquaporin 1](#) (AQP1) and [protein kinase A](#) (PKA) pathway as critical regulators of inflammation and apoptosis. H_2O_2 stimulation led to an increase in the AQP1 expression and a decrease in p-PKA-C, contributing to cartilage degradation. Conversely, anethole not only downregulated the AQP1 expression but also activated the PKA pathway, effectively suppressing cell inflammation and apoptosis. Furthermore, anethole also inhibited the enzymes responsible for cartilage degradation. In summary, the findings highlight the potential of anethole as a therapeutic agent for mitigating H_2O_2 -induced inflammation and [apoptosis](#) in synovial cells, offering promising prospects for future

Rheumatoid Arthritis Treatments¹⁾.

Findings suggest that patients with [rheumatoid arthritis](#) with osteopenia or osteoporosis, particularly those with lower body mass index (BMI), should be screened regularly to determine the status of their cervical spines.²⁾.

Infliximab for Rheumatoid Arthritis

[Infliximab for Rheumatoid Arthritis.](#)

Tocilizumab

see [Tocilizumab for rheumatoid arthritis.](#)

¹⁾

Huang TL, Chang YC, Tsai BC, Chen TS, Kao SW, Tsai YY, Lin SZ, Yao CH, Lin KH, Kuo WW, Huang CY. Anethole mitigates H2 O2 -induced inflammation in HIG-82 synoviocytes by suppressing the aquaporin 1 expression and activating the protein kinase A pathway. Environ Toxicol. 2023 Nov 21. doi: 10.1002/tox.24023. Epub ahead of print. PMID: 37987213.

²⁾

Han MH, Ryu JI, Kim CH, Kim JM, Cheong JH, Bak KH, Chun HJ. Influence of systemic bone mineral density on atlantoaxial subluxation in patients with rheumatoid arthritis. Osteoporos Int. 2017 Mar 2. doi: 10.1007/s00198-017-3972-9. [Epub ahead of print] PubMed PMID: 28255666.

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