

Covid-19 Booster and Methotrexate

- Methotrexate is used to treat conditions such as rheumatoid arthritis and psoriasis.
- These conditions occur due to the immune system getting out of control.
- Methotrexate turns down the overactive immune system and controls these conditions.



Vaccine Response On Off Methotrexate (VROOM) study

- Does stopping methotrexate for 2 weeks immediately after a Covid-19 booster improve protection against Covid-19?
- Would a break from treatment cause the condition to flare up?
- Participants were put into groups randomly (by chance) and advised that **after** their Covid-19 booster they should either:



Continue
methotrexate
as usual

Not take
methotrexate
for next 2
weeks



Talk to health professionals before taking actions regarding your treatment.

What did the VROOM study find?

- Stopping methotrexate for just 2 weeks immediately after the Covid-19 booster doubled the amounts of antibody (a protein that fights infection) compared to continuing with methotrexate.
- The benefit was similar across age groups, diseases, vaccine types, and whether there was prior infection with Covid-19.



What were the risk of pausing treatment for 2 weeks?

- Stopping methotrexate for 2 weeks caused more flare-ups in the short-term. Most flares were self-managed.
- Similar number of people in the two groups of the VROOM study sought help from the NHS.

Please scan the QR code
to see the full results



VROOM study was
funded by the NIHR