

## Essential Shared Care Agreement for Methotrexate (Oral and Parenteral) for dermatological indications

*This local safety monitoring schedule supports clinicians providing shared care under the Local Enhanced Service for High Risk Drug Monitoring (formerly Near Patient Testing)*

This shared care agreement outlines suggested ways in which the prescribing responsibilities can be shared between the specialist and GP. GPs are invited to participate. If the GP feels that undertaking the roles outlined in the shared care agreement is outside their area of expertise or have clinical concerns about the safe management of the drug in primary care, then he or she is under no obligation to do so. In such an event, clinical responsibility for the patient's health remains with the specialist. If a specialist asks the GP to prescribe, the GP should reply to this request as soon as practicable. Sharing of care assumes communication between specialist, GP and patient.

Consultant details	GP details	Patient details
Name:	Name:	Name:
Address:	Address:	NHS Number:
Email:	Email:	Date of birth:
Contact number:	Contact number:	Contact:

Signing indicates agreement with the responsibilities suggested in this document, and that the patient has been informed of the need to report any issues with their treatment to their doctor.

<b>Specialist signature:</b>	<b>General Practitioner signature:</b>
<b>Date:</b>	<b>Date:</b>

### Introduction

Methotrexate is an anti-metabolite and folate antagonist.

**Licensed indications:** severe psoriasis unresponsive to conventional therapy

**Unlicensed indications:** scleroderma; Crohn's disease<sup>1</sup>

For **rheumatological** indications, please refer to the separate rheumatology ESCA.

### Adult dosage and administration

**Dermatology:** usual dose range is 7.5 mg to 15 mg ONCE each week, starting with 2.5 mg to 10 mg ONCE weekly increased according to response in steps of 2.5 mg to 5 mg at intervals of at least 1 week. Max. weekly dose 30 mg.

**Always prescribe oral methotrexate in multiples of 2.5 mg tablet strength.**

**The 10 mg tablets must NOT be used.**

**Patients on subcutaneous methotrexate may have supplies made through the hospital via a homecare company.**

**Once weekly dosing – it is good practice to specify the day of administration on the prescription. Monday should be avoided as this has been misread as 'morning'.**

Dose adjusted, as recommended, by specialist according to response.

Doses outside these ranges may be considered with prior agreement of initiating specialist and GP. Lower doses should be used in the frail elderly or if there is significant renal or hepatic impairment.

Methotrexate may take up to 12 weeks to take effect, so steroids/NSAIDs may be needed initially.



- Continue prescribing for patients receiving regular appropriate blood monitoring with monitoring results within acceptable range.
- Administer influenza vaccine annually unless otherwise advised by the initiating specialist
- Check patient has had ONE DOSE of pneumococcal vaccine (revaccination is not recommend except every five years in patients who antibody levels are likely to have declined more rapidly (e.g. asplenia) – see BNF or Green Book.
- Passive immunisation using Varicella immunoglobulin (VZIG) should be considered in non-immune patients if exposed to chickenpox or shingles.
- Report any adverse drug reactions to initiating specialist and the usual bodies (e.g. MHRA)
- Any dosage change should be followed by an FBC one week later
- Ask about oral ulceration/sore throat, unexplained rash or unusual bruising at every consultation
- If patient develops symptoms/signs of systemic infection, this should be treated promptly and methotrexate withheld until the infection has cleared.
- Ensure a clinician updates the patient's record following specialist review.

#### Withhold methotrexate and contact specialist if:

- WCC <math>3.5 \times 10^9 /L</math>
- Neutrophils <math>2 \times 10^9 /L</math>
- AST/ALT/ALP/GGT >2 times the upper limit of normal (minor elevations are common)
- eGFR <math>30 \text{ ml/min/1.73m}^2</math>
- Unexplained fall in albumin (in absence of active disease)
- New or increasing dyspnoea or cough (contact on call Med Reg if pneumonitis strongly suspected)
- MCV >105 fL – withhold and check serum B12, folate and TFT and discuss with specialist team is necessary
- Oral ulceration/sore throat
- Unexplained rash or bruising
- Nausea and vomiting, diarrhoea
- Established local or systemic infection

**Please note: a rapid increasing or decreasing trend in any values should prompt caution and extra vigilance. Some patients may have abnormal baseline values, specialist will advise. Results should be recorded in the patient's monitoring booklet.**

#### Adverse effects, precautions and contra-indications<sup>iii</sup>

**Myelosuppression & decreased resistance to infection:** especially respiratory/ urinary tract or shingles/chickenpox. Temporarily withhold methotrexate if patient is systemically unwell with significant infection requiring anti-infective intervention.

**Hepatotoxicity:** methotrexate may be hepatotoxic, particularly at high cumulative dosages.

**Nausea:** commonly encountered, may resolve with dose reduction and/or addition of anti-emetic medication.

**Alopecia, stomatitis, diarrhoea:** contact the initiating specialist if severe or persistent.

**Respiratory function:** infrequently, methotrexate can cause interstitial pneumonitis, pulmonary oedema and fibrosis. Patients complaining of unexplained dyspnoea or unexplained non-productive cough should be referred immediately to the initiating specialist. **If pneumonitis strongly suspected, urgently contact specialist team.**

**Alcohol:** patients are advised that alcohol consumption should be avoided or kept to a minimum (well below 14 units weekly for women, or 21 units for men), due to the increased potential for liver toxicity. It is recommended that no more than 4-6 units of alcohol per week are consumed by patients receiving methotrexate.

**Vaccines:** Avoid immunization with live vaccines during treatment, and consider live vaccines prior to commencing methotrexate (see Green Book re zoster vaccine).

