

CLINICAL GUIDELINE

Rheumatoid Arthritis bDMARD and ts DMARD

A guideline is intended to assist healthcare professionals in the choice of disease-specific treatments.

Clinical judgement should be exercised on the applicability of any guideline, influenced by individual patient characteristics. Clinicians should be mindful of the potential for harmful polypharmacy and increased susceptibility to adverse drug reactions in patients with multiple morbidities or frailty.

If, after discussion with the patient or carer, there are good reasons for not following a guideline, it is good practice to record these and communicate them to others involved in the care of the patient.

Version Number:	4
Does this version include changes to clinical advice:	Yes
Date Approved:	25 th November 2022
Date of Next Review:	30 th September 2025
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Approval Group:	Medicines Utilisation Subcommittee of ADTC

Important Note:

The Intranet version of this document is the only version that is maintained.

Any printed copies should therefore be viewed as 'Uncontrolled' and as such, may not necessarily contain the latest updates and amendments.

GREATER GLASGOW AND CLYDE Biologics (bDMARD) and targeted synthetic DMARD (tsDMARD) GUIDELINE:

RHEUMATOID ARTHRITIS

1. Eligibility

Eligibility criteria for bDMARD/tsDMARD in rheumatoid arthritis (RA) are defined by NICE MTA 375 technology appraisal endorsed by HIS (Healthcare Improvement Scotland) and subsequent SMC (Scottish Medicines Consortium) advice as summarised below:

2. Severe Disease: (DAS28>5.1)

Biologic agents included in Table 1, all in combination with methotrexate, are options for treating rheumatoid arthritis, only if disease has not responded to intensive therapy with a combination of conventional disease-modifying anti-rheumatic drugs (csDMARDs): i.e., at least two csDMARDs including methotrexate (unless contraindicated)

- a) Adalimumab, etanercept, certolizumab pegol, tocilizumab & tsDMARDS can be used as monotherapy for people who cannot take methotrexate because it is contraindicated or because of intolerance, when the criteria above are met. Off- label monotherapy for other biologics may be appropriate in some clinical circumstances.
- b) Rituximab has not been included as a first line treatment by NICE and is 'off label'. However, given clinical trial data, cost effectiveness and current clinical practice it is suitable as a first line biologic drug in specific clinical scenarios provided the above criteria are met.
- tsDMARD (JAK inhibitors) can be used based on the above criteria as an alternative to
 first line biologic treatment or as second line treatment where patients are ineligible for
 rituximab (SMC) or where the clinician anticipates better clinical response over other
 Mechanism of Action (MOA's)

3. Summary of drug class and most cost-effective option

Table 1

	TNF Blockade	Anti- CD 20 (B cell)	Costimulatory Blockade	IL-6 Blockade	JAK Inhibitors
Most cost effective drug in class	Amgevita - Adalimumab*	Rixathon - Rituximab*	Abatacept	Sarilumab	Filgotinib
Alternatives	Infliximab IV*			Tocilizumab	Baricitinib
	Certolizumab				Upadicitinib
	Etanercept*				Tofacitinib
	Golimumab				
	Infliximab s/c				

^{*}Biosimilar drugs of the originator product are available for these agents. The table above should guide treatment selection. Where there are no clear clinical reasons for selecting a particular MOA then the lowest cost option taking account of route of administration and dosing schedule should be selected. A medicine annotated as 'most cost effective' should generally be selected initially.

Currently adalimumab is the most cost effective TNFi and should be used in preference to other biologic agents unless specific clinical considerations require a specific TNFi or medicine with a different mechanism of action.

Medicine costs, inclusive of impact of any patient access schemes or discounts, are made available to the service in strict confidence to assist in identifying preferred treatment options.

4. Moderate Disease (DAS 28 3.2-5.1)

HIS has endorsed the NICE TA 715 which approved adalimumab, etanercept and infliximab with methotrexate for moderate RA only if disease has not responded to intensive therapy with a combination of conventional disease-modifying anti-rheumatic drugs (csDMARDs): i.e. at least two csDMARDs including methotrexate (unless contraindicated)

 Adalimumab and etanercept can be used as monotherapy when methotrexate is contraindicated or not tolerated.

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- Continue treatment only if there is a moderate response measured using European League Against Rheumatism (EULAR) criteria at 6 months after starting therapy. If this initial response is not maintained, stop treatment.
- Rituximab is not licenced for moderate disease. However, the clinical
 evidence suggests that both rituximab and filgotinib would be effective in
 the moderate space. Given that these agents fall within the financial
 bracket of the TNFi biosimilars, they are included as a cost-effective
 option, thus opening the opportunity for patients to whom TNFi may be
 contraindicated or likely to be less effective.

Summary of drug class and most effective option in moderate disease

Table 2

	TNF Blockade	Anti- CD 20 (B cell)	JAK Inhibitor
Most cost effective drug in class	Amgevita - Adalimumab	Rixathon - Rituximab*	Filgotinib
Alternatives	Infliximab IV & S/C Benepalli Etanercept		

*Off label

5. Withdrawal/Continuation for moderate and severe RA

- Continue treatment only if there is at least a moderate response measured using European League Against Rheumatism (EULAR) criteria at 6 months after starting therapy or DAS reduction of >1.2.
 - After initial response within 6 months, withdraw treatment if a moderate EULAR response is not maintained, or DAS reduction of >1.2

6. Cost Effectiveness

• The most cost-effective drug in class should be used unless clinical need requires a specific agent.

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7. Off-label dosing and drug monitoring for moderate and severe RA

- A decision to prescribe a biologic drug for an approved condition but using doses that are 'off label' e.g. tapering, is a decision for the rheumatologist and patient.
- Increasing the interval of dosing or dose reduction at same frequency could be considered when:
 - 1. Patients have maintained remission/LDA for a sustained period
 - 2. Infection concerns have developed
 - 3. Tolerability/patient request
 - All bDMARDS and smDMARDS are not included in near patient testing arrangements.
 - Responsibility for any blood monitoring remains with the prescriber.
 - Use of biologic drug level monitoring (for infliximab and adalimumab) could be considered when adjusting dose, or where secondary failure has occurred to inform choice of subsequent therapy.

Advice can be found at https://www.nhsggc.org.uk/about-us/professional-support-sites/laboratory-disciplines/biochemistry/biological-therapy-monitoring/