

## BEDFORDSHIRE, LUTON AND MILTON KEYNES AREA PRESCRIBING COMMITTEE (APC)

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# Rheumatoid Arthritis Treatment Pathway for Severe Disease

(This pathway is designed to follow on from the  
moderate disease pathway)

(updated September 2023, previous March 2022)

### General Prescribing notes

- Patients may already have received either a TNFi or a JAKi as part of the Moderate disease treatment pathway. Usage at the moderate stage must be taken into account when considering further treatment options within the Severe disease pathway.
- Regardless of whether treatment is started at the moderate stage or at the severe disease stage, it has been agreed locally that a maximum of 5 drugs, each with a different mode of action (MOA) can be used in total.
- In cases where clinical exceptionality can be demonstrated, a request for a sixth line agent can be considered via the [Individual Funding Request \(IFR\) route](#)
- Clinicians should refer to the SmPCs for each individual drug for full prescribing information, noting ▼ black triangle status where applicable. – [click here](#)
- **TNF inhibitors should be avoided in patients with any of the following co-morbidities:- (Δ Specific patient population):** Proven malignancy in last 10 years; malignant melanoma at any point; MS; Bronchiectasis; Pulmonary Fibrosis; SLE; Congestive heart failure (NYHA Class III / IV)
- **JAK inhibitors** –The MHRA have issued a drug safety update (DSU) bulletin (April 2023) detailing new measures to reduce risks of major cardiovascular events, malignancy, venous thromboembolism, serious infections and increased mortality with JAK inhibitors. See [MHRA advice](#) on measures to consider before considering prescribing a JAK inhibitor.
- Always prescribe by brand name
- Biosimilar biologics are preferred over the originator brand (cost effective)
- Switching from originator brand to a biosimilar should be carried out as per locally agreed switching protocols.

The following organisations contribute to and participate in the BLMK APC – Bedfordshire, Luton and Milton Keynes Clinical Integrated Care Board (ICB); Bedfordshire Hospitals NHS Foundation Trust; Cambridgeshire Community Services NHS Trust; Central and North West London NHS Foundation Trust; East London NHS Foundation Trust; Milton Keynes University Hospital NHS Foundation Trust

# Management of Severe Rheumatoid Arthritis (i.e. DAS 28 > 5.1)

Preferred Treatment Pathway (in line with NICE TAs and locally agreed APC guidance) (Updated Sept 2023)

**STEP ONE:**-Take individual patient factors and co-morbidities into account when making initial choice of therapy. Always prescribe in combination with methotrexate (mtx) unless contra-indicated / not tolerated.

## Choice of TNF inhibitors

-Adalimumab\* s/c +/- mtx (preferred option)

-Etanercept\* s/c +/- mtx

-Certolizumab pegol s/c +/- mtx

-Golimumab s/c plus mtx

-Infliximab\* s/c or IV plus mtx

\*Biosimilar brand available

An alternative TNFi may be used if treatment stopped due to an adverse event within the first 6 months unless deemed to be a class effect reaction (local agreement).

**NB:** Avoid TNFi s in patients with the following comorbidities:- ( $\Delta$  specific patient subgroup):- Proven malignancy in last 10 years; malignant melanoma at any point; MS; Bronchiectasis; Pulmonary Fibrosis; SLE; congestive heart failure (class III / IV)

## Choice of JAK Inhibitors\*

(note all JAKi have a  $\nabla$  status – See individual SmPCs)

-Baricitinib po +/- mtx

-Filgotinib po +/- mtx

-Tofacitinib po +/- mtx

-Upadacitinib po +/- mtx

\*See **MHRA advice on measures to consider before prescribing a JAK inhibitor.**

## Choice of IL-6 Inhibitors

-Sarilumab s/c +/- mtx

-Tocilizumab s/c +/- mtx

(tocilizumab IV +/- mtx is an option if s/c not suitable)

## Selective co-stimulation modulator

Abatacept plus mtx

**NB:** In a small, specific patient subgroup  $\Delta$  who cannot have a TNFi and where the use of rituximab is preferable to any of the 3 remaining step one agents (listed above) :-

-rituximab plus mtx may be considered as a **STEP ONE** option. If the patient cannot have mtx, then rituximab may be given with another DMARD or as monotherapy (local agreement). A switch to subsequent agents with different mode of action each time may then be tried. The subsequent choice of agents is dependent on exact nature of comorbidities.

## Assess response after 6 months:

- If a moderate response\*, **continue** treatment and monitor every 6 -12 months.
- **Withdraw** treatment if moderate response not achieved / not maintained/ if intolerance develops and consider a **STEP TWO** agent. \*Moderate response (in severe disease): (as defined by EULAR) i.e., an improvement in DAS28 of 1.2 points

## STEP TWO:-

Rituximab plus mtx is the preferred treatment to try in step 2. Alternative options can be used if rituximab or methotrexate is contra-indicated / not tolerated. Take individual patient factors and co-morbidities into account.

- **Rituximab (biosimilar) IV plus methotrexate** (Rituximab should be given no more frequently than every 6 months)

**Alternative if rituximab contraindicated or not tolerated** (choice dependent on previous agents tried)

- An alternate biologic options from step one +/- mtx (use a biologic with different mode of action than initial drug) **OR**
- a JAK inhibitor +/- mtx (NB not suitable if a JAKi has been tried previously)

**Alternative if mtx is contraindicated or not tolerated** (choice dependent on what agents have previously been tried)

- TNFi (monotherapy) i.e. adalimumab; etanercept; certolizumab **or**
- a JAK inhibitor (monotherapy) (NB this is not suitable if a JAKi has been tried previously at earlier stage) **or**
- IL-6 inhibitor (monotherapy) i.e. sarilumab; tocilizumab

**Assess response after 6 months (as per grey box above); if no response / loss of response: consider STEP THREE option**

## STEP THREE:-

**If Rituximab plus mtx used in step 2:** options if not already used earlier in the pathway include:

Upadacitinib po +/- mtx **or** filgotinib po +/- mtx **or** sarilumab s/c +/- mtx **or** tocilizumab s/c +/- mtx

(NB switching between filgotinib & upadacitinib **or** sarilumab & tocilizumab, is not supported in this pathway.)

**If alternative biologic or a JAK inhibitor was used in step 2:** available options if not already used earlier in the pathway include:- sarilumab s/c +/- mtx **or** tocilizumab s/c +/- mtx NB: Tocilizumab IV is an alternative option if s/c route not suitable.

**Assess response after 6 months (as per grey box above) ; if no response / loss of response: consider STEP FOUR option**

## STEP FOUR / FIVE (local agreement)

Clinicians can consider switching to a 4<sup>th</sup> agent with a different mode of action that has not yet been tried previously.

**Assess response after 6 months (as per grey box above); if no response / loss of response.**

A 5<sup>th</sup> agent (with a different mode of action) may be considered.

**A total of 5 different modes of action will be routinely commissioned. Any request for a sixth line agent, where clinical exceptionality can be demonstrated, can be considered via the Individual Funding Request (IFR) route.**