

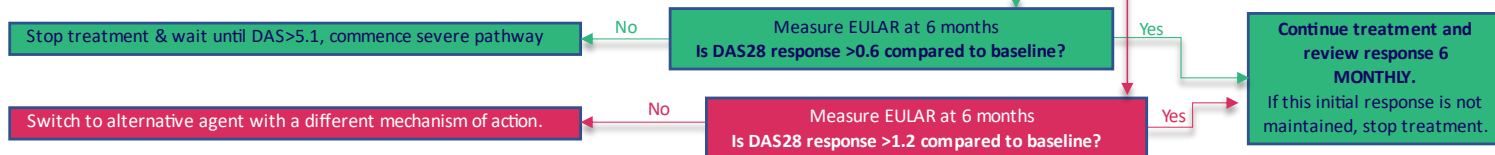
# Rheumatoid arthritis high-cost drugs summary

Failure of intensive therapy with 2 or more cDMARDs

DAS score  $\geq 5.1$   
3.2  $\leq$  DAS score  $< 5.1$

Key	Drug	MoA	RoA	Strength	Frequency	Relative cost	C/I/key	DAS score		Biosim required <sup>1</sup>	MTX	Pregnancy	B/Feed	MHRA
								3.2-5.1 (TA)	$\geq 5.1$ (TA)					
RTX	Rituximab	B cells/CD20	IV	2g	Every 24 weeks		2,3,5,7	-	✓ (10)	✓	-	-	-	-
ADA	Adalimumab	TNF $\alpha$ i	SC	40mg	Every 2 weeks <sup>2</sup>		1,3,4	✓ (10)	✓ (10, 10)	✓	-	T1+2	✓	-
INF	Infliximab	TNF $\alpha$ i	IV	3mg/kg	Every 8 weeks		2,3,4	✓ (10)	✓ (10, 10)	✓	✓	T1	-	-
FGB	Filgotinib	JAK 1&3i	PO	200mg	Once daily		1,5,9	✓ (10)	✓ (10)	✓	-	-	-	-
ETN	Etanercept	TNF $\alpha$ i	SC	50mg	Once weekly		1,3,4	✓ (10)	✓ (10, 10)	✓	-	T1+2	-	-
INF	Infliximab	TNF $\alpha$ i	SC	3mg/kg	Every 8 weeks		2,3,4	-	✓ (10)	✓	✓	T1	-	-
PAD	Upadacitinib	JAK 1i	PO	15mg	Once daily		1,5,8,9	✓ (10)	✓ (10)	-	-	-	-	✓
TFA	Tofacitinib	JAK 1&3i	PO	5mg	Twice daily		1,5,8,9	-	✓ (10)	-	-	-	-	✓
BRB	Baricitinib	JAK 1&2i	PO	4mg	Once daily		1,9	-	✓ (10)	-	-	-	-	✓
SRB	Sarilumab	IL-6i	SC	200mg	Every 2 weeks		1,5	-	✓ (10)	-	-	-	-	-
ABA	Abatacept	T cells CD80/86	IV	125mg	Once weekly		1,5	-	✓ (10, 10)	-	✓	-	-	-
ABA	Abatacept	T cells CD80/86	SC	125mg	Once weekly		1,5	-	✓ (10, 10)	-	✓	-	-	-
CZP	Certolizumab pegol	TNF $\alpha$ i	SC	200mg	Every 2 weeks		1,3,4	-	✓ (10, 10)	-	✓	✓	✓	-
TCB	Tocilizumab	IL-6i	SC	162mg	Once weekly		1,5	-	✓ (10, 10)	-	-	-	-	✓
GOL	Golimumab	TNF $\alpha$ i	SC	50mg	Every 4 weeks		1,3,4	-	✓ (10, 10)	-	✓	-	-	-
TCB	Tocilizumab	IL-6i	IV	162mg	Once weekly		1,5	-	✓ (10, 10)	-	-	-	-	✓

<sup>1</sup> : Information regarding whether therapeutic option can be initiated as monotherapy, or if methotrexate is required in combination. Rituximab can be initiated as monotherapy, as per local agreement.



## 2: Weekly Adalimumab dosing (local decision)

As per local agreement (TAG - May 2023), patients on the usual dose of adalimumab 40mg every 2 weeks subcutaneously, who have experienced loss of efficacy with subtherapeutic trough adalimumab levels. Note, the following exclusions apply

- patients on the originator (Humira)
- patients who have anti-drug antibodies

See Rheumatoid Arthritis High-Cost drug Treatment Pathway document for full details

### Key - Contraindication

1. Hypersensitivity to active substance, or to any product excipients
2. Hypersensitivity to active substance, to other murine proteins, or to any product excipients
3. NY class 3 4 heart failure
4. Patients with/at risk of severe infections such as tuberculosis sepsis, abscesses, and opportunistic infections
5. Clinically important, active infection (e.g. active tuberculosis)
6. Active Crohn's disease
7. Patients in a severely immunocompromised state
8. Severe hepatic impairment
9. Pregnancy

### Considerations to Support the Use of a Specific Agent

- Patient factors: Device, dexterity, adherence, dose frequency, route of administration, weight, co-morbidities, drug history
- **Abatacept**: High risk of infection
- **Adalimumab**: Extra articular features/co-existent eg. uveitis (TA383), psoriasis (TA146), IBD (TA 187/329).
- **Certolizumab**: Females of childbearing potential
- **Etanercept**: Risk of activation of latent TB or high risk of infection. Etanercept is less immunogenic than other TNFi, may be a suitable option for patients experiencing secondary failure.
- **Golimumab**: Patient weight >100Kg: PAS permits double dose at the same cost (??)
- **IL-6 inhibitor**: Features of IL-6 mediated disease e.g. high ESR/CRP, anaemia, high ferritin; Consider in monotherapy
- **IV Infusions**: Compliance issues, impaired manual dexterity
- **JAK inhibitor**: Needle phobia. If patient has renal impairment or on haemodialysis, consider Tofacitinib.
- **Rituximab**: Consider 1st line (off-label use) if SLE/CTD overlap, co-existing ILD, haematological malignancy or treated solid malignancy within last 5 years, history of demyelination (EULAR/ACR recommendations). Rituximab with an alternative DMARD or as monotherapy may also be considered.

### Published MHRA Warnings for Specific Agents:

- **Todilizumab** (RoActemra®): rare risk of serious liver injury including cases requiring transplantation ([July 2019](#))
- All **JAK inhibitors**: increased incidence of malignancy, major adverse cardiovascular events (MACE), serious infections, venous thromboembolism (VTE) and mortality ([April 2023](#))
- **Specific JAK inhibitor warnings:**
- **Baricitinib** (Olmiant®): risk of venous thromboembolism ([March 2020](#))
- **Baricitinib** (Olmiant®): increased risk of diverticulitis, particularly in patients with risk factors ([August 2020](#))
- **Tofacitinib** (Xeljanz®): new measures to minimise risk of venous thromboembolism and of serious and fatal infections ([March 2020](#))
- **Tofacitinib** (Xeljanz®): new measures to minimise risk of major adverse cardiovascular events and malignancies ([October 2021](#))
- **Upadacitinib** (Rinvoq®): advice for venous thromboembolism ([March 2020](#))