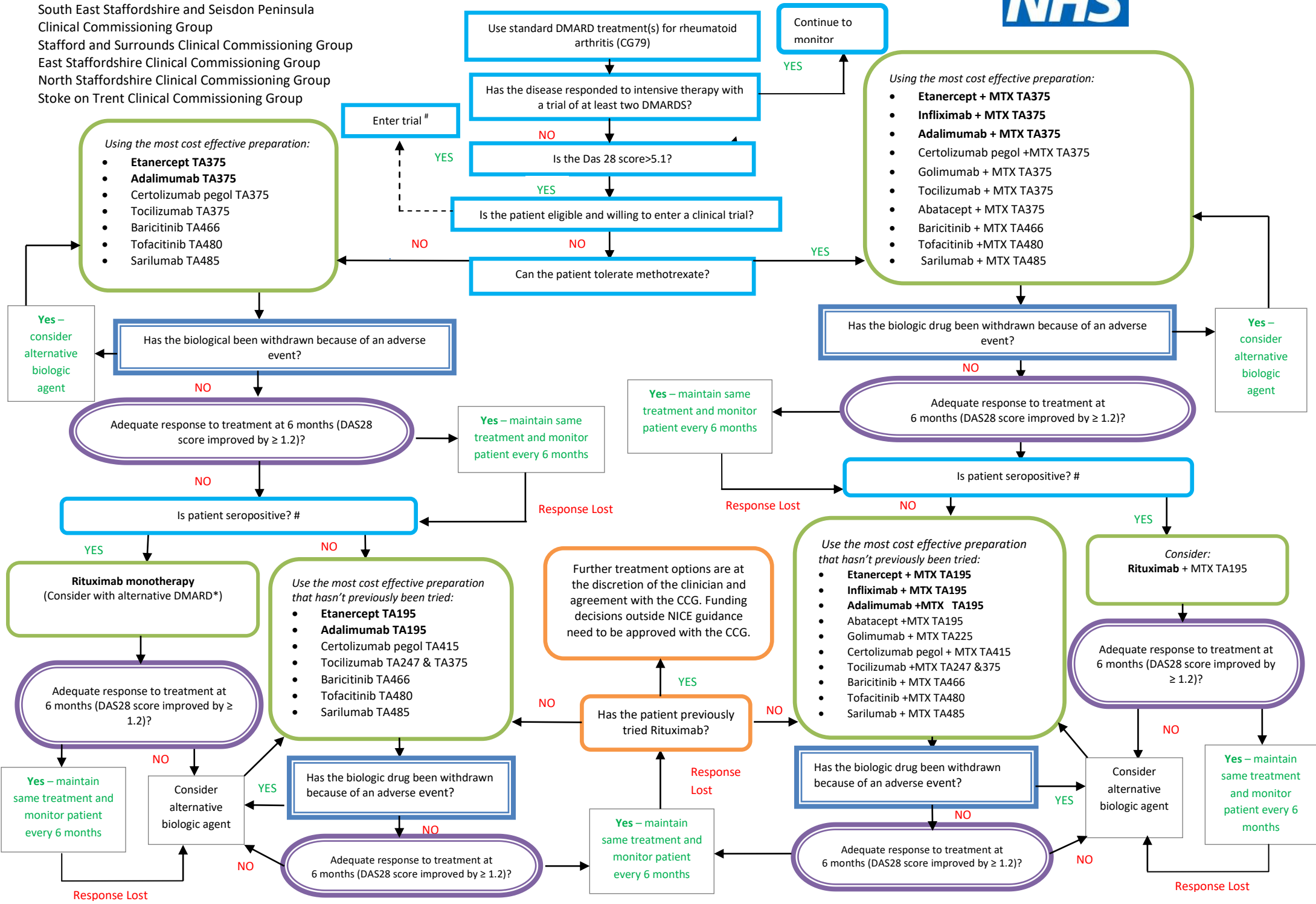


Rheumatoid Arthritis Biologics and Targeted Therapies Pathway



Below are circumstances that may suggest the use of a specific agent (in alphabetical order):

With all biologics there may be a generalised increased risk of infection. In specific circumstances such as interstitial lung disease (ILD) careful assessment prior to treatment, systematic subsequent monitoring and respiratory opinion is advised regardless of chosen biologic. It is recommended that safety/alert cards are used where available at the point of initiation for all these medicines.

Abatacept (Antibody blocking T-cells)

Consider if injection site reactions to anti-TNFs or previous hospitalised infections on anti-TNFs/potential serious infection risk
 SLE/Lupus like illness overlap
 CHF stage 3 (not stage 4)
 ILD

Adalimumab (TNF –alpha inhibitor)

Extra articular features/co-existent conditions such as Uveitis (NHSE), Psoriasis, Crohn's disease and Ulcerative colitis
 Avoid in severe CCF

Baricitinib (Janus kinase (JAK) inhibitor)

Severely impaired manual dexterity and Needle phobia

Certolizumab (TNF –alpha inhibitor)

Pregnancy
 Avoid in severe CCF

Etanercept (TNF –alpha inhibitor)

Potential risk of TB
 Women planning a pregnancy in the near future
 Consider if potential serious infection risk
 Hepatitis C
 Avoid in severe CCF

Golimumab (TNF –alpha inhibitor)

Consider if the patient is over 100kg
 Needle phobia/compliance issues/patient convenience (monthly injection)
 Ulcerative colitis
 Avoid in severe CCF

Infliximab (TNF –alpha inhibitor)

Body weight <60kg (potential cost saving)
 Compliance issues/Needle phobia
 Severely impaired manual dexterity
 Co-existent conditions such as Uveitis (NHSE), Crohn's disease, Ulcerative colitis and rheumatoid vasculitis
 Avoid in severe CCF

Rituximab (B-cell depletion of lymphocytes -1 type of white blood cell)

Can be used first line if – Recent history of lymphoma
 *Lefluomide is the preferred option instead of methotrexate
 Latent TB with contraindications to the use of chemoprophylaxis
 Previous history of demyelinating disease
 Treated solid malignancy within the last 5 years (does not include non BCC/squamous cell skin cancer)
 SLE/Lupus like illness overlap
 CHF stage 3 (not stage 4)
 Severely impaired manual dexterity
 ILD
 # seronegative patients may also be trialled on Rituximab following agreement from the CCG.

Sarilumab (IL-6 (interleukin 6) receptor inhibitor)

As for Tocilizumab
 UKMI have released a safety alert stating that patients receiving sarilumab should receive an alert card before the initiation of drug treatment. The alert card advises the patient on their treatment, but also the increased risk of serious infections, neutropenia, and gastrointestinal perforation, and when to seek immediate medical attention.

Tocilizumab (IL-6 (interleukin 6) receptor inhibitor)

Compliance issues/Needle phobia (IV Tocilizumab)
 Severely impaired manual dexterity (IV Tocilizumab)
 Features of IL-6 mediated disease (high ESR/CRP, anaemia of chronic disease, high ferritin, and systemic features)
 AA Amyloidosis
 SLE/Lupus like illness overlap
 CHF stage 3 (not stage 4)
 ILD
 Use with caution in patients with colitis/diverticulitis

Tofacitinib (Janus kinase (JAK) inhibitor)

Severely impaired manual dexterity and Needle phobia

Clinical Trials:

In cases where treatment cannot be stopped at the end of the trial, exit arrangements and ongoing funding arrangements must be agreed with the Commissioner prior to commencement of the trial

NHS England Policy

<https://www.england.nhs.uk/wp-content/uploads/2017/09/clinical-trials-comm-policy.pdf>

Government Gateway- Good clinical practice for clinical trials

<https://www.gov.uk/guidance/good-clinical-practice-for-clinical-trials>

N.B Patients can enter trials at any point of the pathway or re-enter the pathway after trial as per the exit strategy.

+ If the patient has failed on two anti-TNFs then preferentially use an alternative treatment with a different mode of action.

Biosimilars

Biosimilar versions of biologics are becoming more accessible, usually with a lower cost than the originator product. The prescribing of biosimilar preparations should be by brand name. The preparation with the lowest acquisition cost (taking into account administration costs, dosage and price per dose) should normally be used.

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