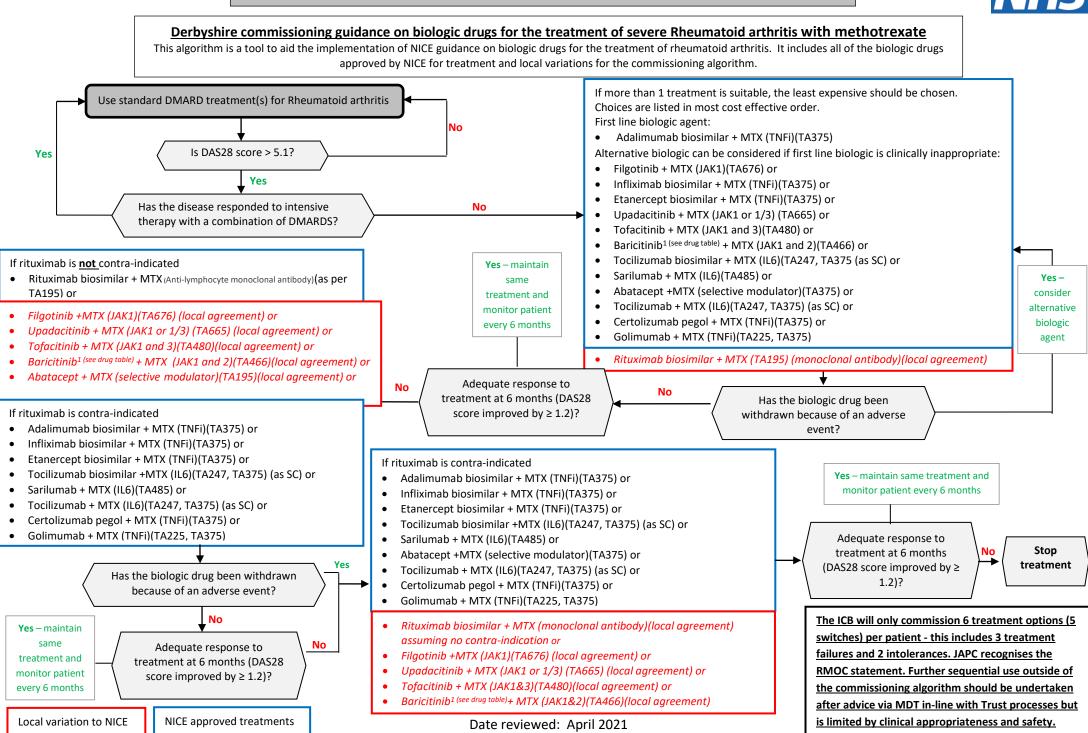
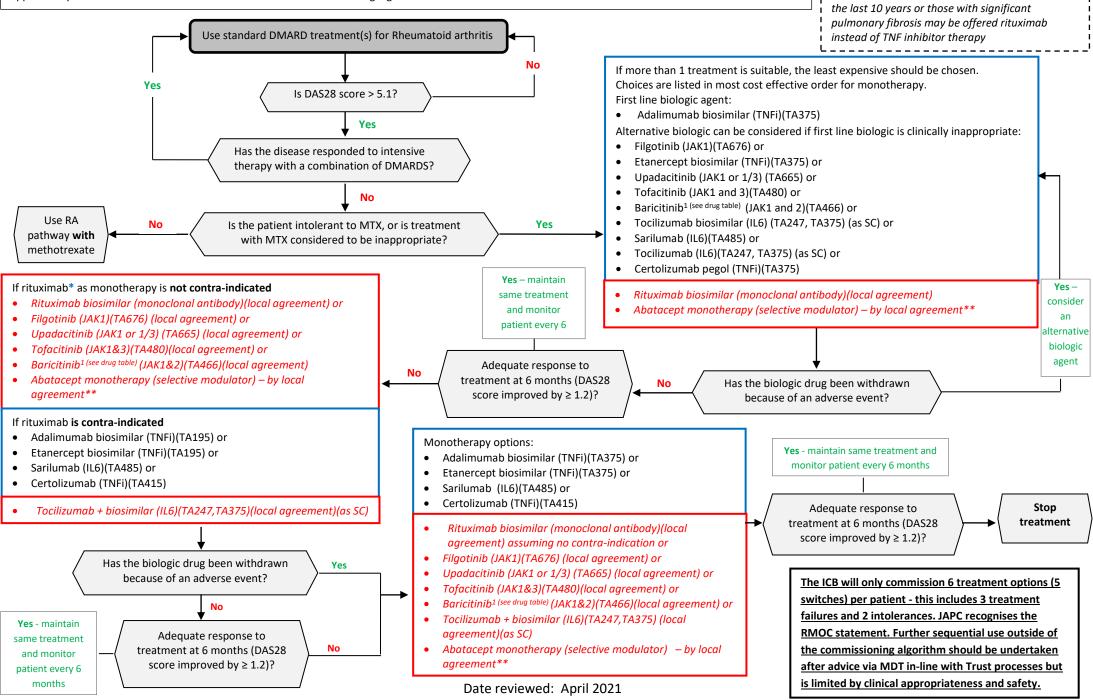
## DERBYSHIRE JOINT AREA PRESCRIBING COMMITTEE (JAPC)



## Derbyshire commissioning guidance on biologic drugs for the treatment of severe Rheumatoid arthritis without methotrexate

This algorithm is a tool to aid the implementation of NICE guidance on biologic drugs for the treatment of rheumatoid arthritis. It includes all of the biologic drugs approved by NICE for treatment and local variations for the commissioning algorithm.



Patients who have had a proven malignancy in



| Drug<br>Intravenous the            | rapies  | NICE TA                  | TA details   | Route          | Dose  |
|------------------------------------|---|--------------------------|--|----------------|---|
| Abatacept<br>(+MTX)                | Selective T-cell<br>stimulation modulator                                       | NICE TA195<br>NICE TA375 | Disease has not responded to conventional<br>DMARDS – 1 <sup>st</sup> line<br><b>and</b><br>May also be used if disease has not responded to a<br>previous TNF inhibitor.                | SC<br>or<br>IV | SC – 125mg once weekly<br>IV for pts:<br><60kg – 500mg dose<br>60-100kg - 750mg dose<br>>100kg - 1000mg dose<br>Given initially at week 0, 2, and 4 and then every 4 weeks<br>thereafter. |
| **Abatacept<br>monotherapy         | abatacept mor   | notherapy for p          | atients with RA and interstitial lung disease – outside o  | of NICE g      | uidance – by local agreement  |
| Adalimumab<br>(±MTX)               | Monoclonal antibody<br>that specifically binds<br>to TNF                        | NICE TA195<br>NICE TA375 | Disease has not responded to conventional<br>DMARDS - 1 <sup>st</sup> line<br><b>and</b><br>Inadequate response/ intolerance to TNF inhibitor<br>and CI/intolerance to rituximab therapy | SC             | 40mg every other week<br>For monotherapy – dose may increase to 40mg per week, if<br>patient experiences a decrease in response.  |
| Certolizumab<br>(±MTX)             | Recombinant<br>humanised antibody<br>Fab' fragment against<br>TNF alpha         | NICE TA415<br>NICE TA375 | Disease has not responded to conventional<br>DMARDS - 1 <sup>st</sup> line<br><b>and</b><br>Inadequate response/ intolerance to TNF inhibitor<br>and CI/intolerance to rituximab therapy | SC             | Initially 400mg given at<br>Week 0, 2 and 4 and then 200mg every 2 weeks thereafter<br>Or 400mg every 4 weeks, once clinical response confirmed.  |
| Etanercept<br>Biosimilar<br>(±MTX) | Recombinant human<br>TNF receptor fusion<br>protein.                            | NICE TA195<br>NICE TA375 | Disease has not responded to conventional<br>DMARDS - 1 <sup>st</sup> line<br><b>and</b><br>Inadequate response/ intolerance to TNF inhibitor<br>and CI/intolerance to rituximab therapy | SC             | 50mg every week<br>Or<br>25mg twice weekly  |
| Golimumab<br>(+MTX)                | Monoclonal antibody<br>that prevents the<br>binding of TNF to its<br>receptors. | NICE TA225<br>NICE TA375 | Disease has not responded to conventional<br>DMARDS - 1 <sup>st</sup> line<br><b>and</b><br>May also be used if disease has not responded to a<br>previous TNF inhibitor.                | SC             | For pts < 100kg - 50mg every month<br>For pts >100kg - 100mg every month, if inadequate clinical<br>response after 3-4 doses.)  |
| Infliximab                         | Chimeric monoclonal   | NICE TA195               | Disease has not responded to conventional  | IV             | 3mg/kg IV dose, given at week 0, 2, 6 and then every 8 weeks  |



| biosimilar<br>(±MTX)                    | antibody, with high<br>affinity to TNF.                            | NICE TA375               | DMARDS - 1 <sup>st</sup> line<br>and<br>Inadequate response/ intolerance to TNF inhibitor<br>and CI/intolerance to rituximab therapy   |                | thereafter.<br>If there is an inadequate response or loss of response after 12<br>weeks of treatment, consider increasing dose step-wise by<br>approximately 1.5mg/kg up to a maximum of 7.5mg/kg every 8<br>weeks<br>or 3mg/kg every 4 weeks   |
|---|--|--------------------------|--|----------------|---|
| Rituximab<br>Biosimilar<br>(+MTX)       | Chimeric monoclonal<br>antibody – depletes B-<br>cell population.  | NICE TA195               | If pt has had an inadequate response or intolerant of DMARDS and at least one TNF inhibitor.   | IV             | 2x 1000mg given 2 weeks apart, repeated no less than 16 weeks.  |
| Sarilumab<br>(±MTX)                     | Human monoclonal<br>antibody selective for<br>the IL-6 receptor    | NICE TA485               | Active RA for pts who have had an inadequate<br>response to DMARDs and/or 1 biological DMARD ,<br>only if they cannot have rituximab<br><b>and</b><br>Disease responded inadequately to rituximab and<br>at least 1 biological DMARD                           | SC             | 200mg once every 2 weeks.<br>Reduce the dose to 150mg once every 2 weeks for patients with<br>neutropenia, thrombocytopenia and increased LFTS.   |
| Tocilizumab<br>Biosimilar<br>(±MTX)     | Monoclonal antibody –<br>inhibits interleukin-6<br>(IL-6) receptor | NICE TA375<br>NICE TA247 | Disease has not responded to conventional<br>DMARDS - 1 <sup>st</sup> line<br><b>and</b><br>May also be used if disease has not responded to a<br>previous TNF inhibitor and the pt cannot receive<br>rituximab because of CI or adverse event to<br>rituximab | SC<br>or<br>IV | <ul> <li>SC - 162mg once weekly (as per SPC) or</li> <li>IV - 8mg/kg every 4 weeks</li> <li>For patients &gt;100kg, doses exceeding 800mg are not recommended</li> </ul>  |
| Oral therapies<br>Baricitinib<br>(±MTX) | Selective JAK1 and JAK2 inhibitor                                  | NICE TA466               | Active RA for pts who have had an inadequate<br>response to DMARDs and/or 1 biological<br>DMARD (only if they cannot have rituximab)   | PO             | <ul> <li>4mg once daily.</li> <li>2mg once daily is appropriate for pts ≥75 years and over</li> <li><sup>1</sup>MHRA Drug Safety Update August 2020 - Use baricitinib with caution in patients with diverticular disease and in those concomitantly treated with medications associated with an increased risk of diverticulitis</li> </ul> |
| Filgotinib<br>(±MTX)                    | Selective JAK1<br>inhibitor  | NICE TA676               | Active RA for pts who have had an inadequate<br>response to DMARDs and/or 1 biological<br>DMARD (only if they cannot have rituximab)   | PO             | 200mg once daily for adult 18-74 yrs<br>100mg once daily increasing to 200mg daily if necessary for adult<br>75 years and over  |



| Tofacitinib<br>(±MTX) | Inhibitor of JAK1 and JAK3.  | NICE TA480 | Active RA for pts who have had an inadequate<br>response to DMARDs and/or 1 biological<br>DMARD (if they cannot have rituximab)   | PO | 5mg taken twice daily |
|-----------------------|--|------------|---|----|-----------------------|
|                       |  |            | <u>MHRA Oct 2021</u> - Tofacitinib should not be used<br>in patients older than 65 years of age, people<br>who are current or past smokers, or individuals<br>with other cardiovascular (such as diabetes or<br>coronary artery disease) or malignancy risk<br>factors unless there are no suitable treatment<br>alternatives |    |                       |
| Upadacitinib          | selective and<br>reversible inhibitor of<br>the Janus-associated<br>tyrosine kinase JAK1 or<br>JAK 1/3 | NICE TA665 | For treating severe rheumatoid arthritis  | PO | 15mg taken once daily |