

East Surrey CCG, Guildford & Waverley CCG, North West Surrey CCG, Surrey Downs CCG, Surrey Heath CCG, Crawley CCG, Horsham & Mid-Sussex CCG

Briefing Paper for Prescribing Clinical Network on NICE Technology Appraisals: Local implementation

NICE TA Guidance	Sarilumab for moderate to severe rheumatoid arthritis Technology appraisal guidance 485		
Available at	https://www.nice.org.uk/guidance/ta485		
Date of issue	1 November 2017	Implementation deadline	1 February 2018

Medicine details ¹			
Name, brand name	Sarilumab (Kevzara®)		
and manufacturer	Genzyme Therapeutics		
Mode of action	Sarilumab is a human monoclonal antibody selective for the interleukin-6 (IL-6) receptor, produced in Chinese Hamster Ovary cells by recombinant DNA technology.		
Licensed indication	Kevzara® in combination with methotrexate (MTX) is indicated for the treatment of moderately to severely active rheumatoid arthritis (RA) in adult patients who have responded inadequately to, or who are intolerant to one or more disease modifying anti rheumatic drugs (DMARDs).		
	Kevzara $^{\mbox{\scriptsize B}}$ can be given as monotherapy in case of intolerance to MTX or when treatment with MTX is inappropriate.		
Formulation	150 mg and 200mg solution for injection in pre-filled syringe 150 mg and 200mg solution for injection in pre-filled pen		
Usual dosage	The recommended dose of Kevzara® is 200 mg once every 2 weeks administered as a subcutaneous injection. Reduction of dose from 200 mg once every 2 weeks to 150 mg once every 2 weeks is recommended for management of		

Disease and potential patient group			
Brief description of disease ²			
	Rheumatoid arthritis mainly affects the joints. It can cause problems in any joint in the body, although the small joints in the hands and		

	feet are often the first to be affected.	
	Rheumatoid arthritis typically affects the joints symmetrically (both sides of the body at the same time and to the same extent), but this isn't always the case.	
	The main symptoms affecting the joints are:	
	 Pain: Usually throbbing and aching. It is often worse in the mornings and after a period of inactivity. Stiffness: Often more severe in the morning and lasting longer than 30 minutes or after a period of inactivity. Swelling, warmth and redness: The lining of joints affected by rheumatoid arthritis become inflamed, which can cause the joints to swell, and become hot and tender to touch. In some people, firm swellings called rheumatoid nodules can also develop under the skin around affected joints. Additional symptoms: As well as problems affecting the joints, some people with rheumatoid arthritis experience a range of more general symptoms, such as: 	
	 tiredness and a lack of energy a high temperature (fever) sweating a poor appetite weight loss 	
	 The inflammation associated with rheumatoid arthritis can also sometimes cause problems affecting other areas of the body, such as: dry eyes – if the eyes are affected chest pain – if the heart or lungs are affected 	
Potential patient numbers per 100,000	One study in the UK found the population minimum prevalence of RA to be 1.16% in women and 0.44% in men.	
	The incidence of the condition is low, with around 1.5 men and 3.6 women developing RA per 10,000 people per year.	

SUMMARY

Guidance⁴

1.1 Sarilumab, with methotrexate, is recommended as an option for treating active rheumatoid arthritis in adults whose disease has responded inadequately to intensive therapy with a combination of conventional disease-modifying antirheumatic drugs (DMARDs), only if:

- disease is severe (a disease activity score [DAS28] of more than 5.1) and
- the company provides sarilumab with the discount agreed in the patient access scheme.

1.2 Sarilumab, with methotrexate, is recommended as an option for treating active rheumatoid arthritis in adults whose disease has responded inadequately to or who cannot have other DMARDs, including at least 1 biological DMARD, only if:

- disease is severe (a DAS28 of more than 5.1) and
- they cannot have rituximab and

 the company provides sarilumab with the discount agreed in the patient access scheme.

1.3 Sarilumab, with methotrexate, is recommended as an option for treating active rheumatoid arthritis in adults whose disease has responded inadequately to rituximab and at least 1 biological DMARD, only if:

- disease is severe (a DAS28 of more than 5.1) and
- the company provides sarilumab with the discount agreed in the patient access scheme.

1.4 Sarilumab can be used as monotherapy for people who cannot take methotrexate because it is contraindicated or because of intolerance, when the criteria in sections 1.1 and 1.2 are met.

1.5 Continue treatment only if there is a moderate response measured using European League Against Rheumatism (EULAR) criteria at 6 months after starting therapy. After an initial response within 6 months, withdraw treatment if at least a moderate EULAR response is not maintained.

1.6 These recommendations are not intended to affect treatment with sarilumab that was started in the NHS before this guidance was published. People having treatment outside these recommendations may continue without change to the funding arrangements in place for them before this guidance was published, until they and their NHS clinician consider it appropriate to stop.

Why the committee made these recommendations

Clinical trials showed sarilumab plus methotrexate or conventional DMARDs to be more effective than methotrexate or conventional DMARDs for treating moderate to severe active rheumatoid arthritis that has not responded adequately to conventional DMARDs. The trials also showed that for treating severe active rheumatoid arthritis that has not responded adequately to conventional DMARDs, sarilumab alone is more effective than adalimumab alone.

Because there are no trials comparing sarilumab with other biological DMARDs, the company did an indirect comparison. This showed that sarilumab with conventional DMARDs (including methotrexate) or alone works as well as most of the biological DMARDs that NICE has already recommended.

Based on the health-related benefits and costs compared with conventional and biological DMARDs, sarilumab plus methotrexate or sarilumab alone is recommended as a cost-effective treatment for severe active rheumatoid arthritis, in line with previous recommendations in NICE technology appraisal guidance on:

- baricitinib
- certolizumab pegol (after a TNF-alpha inhibitor)
- adalimumab, etanercept, infliximab, certolizumab pegol, golimumab, tocilizumab and
- abatacept (after conventional DMARDs)
- tocilizumab
- tofacitinib
- golimumab (after DMARDs)
- adalimumab, etanercept, infliximab, rituximab and abatacept (after a TNF-alpha inhibitor).

Please note that sarilumab is licensed for moderate (a disease activity score [DAS28] between 3.2 and 5.1) to severe (a disease activity score [DAS28] of more than 5.1) active rheumatoid arthritis but the NICE TA recommendations are for severe disease i.e. DAS28 of

more than 5.1.

Cost implications*,^{3,4}

Cost:

The list price per pre-filled pen or syringe of 150mg or 200mg of sarilumab is £456.13.

Annual or monthly cost per patient:

The average cost per patient per year is estimated at £11,900 based on the list price.

Availability of PAS and details (if appropriate): Yes.

The company has agreed a patient access scheme with the Department of Health. This scheme provides a simple discount to the list price of sarilumab, with the discount applied at the point of purchase or invoice.

The level of the discount is commercial in confidence. The Department of Health considered that this patient access scheme does not constitute an excessive administrative burden on the NHS.

Availability of homecare service (if appropriate):

Sarilumab is immediately available as a direct delivery from Sanofi and will be available via homecare in the near future.

NICE Resource impact statement:

'No significant resource impact is anticipated. We do not expect this guidance to have a significant impact on resources. This is because the technology is an option alongside current standard treatment options'.

*NICE funding requirements are based on Quality Adjusted Life Years (QALY) threshold. If there is evidence that the incremental cost rises above this threshold in the future, the PCN may reconsider the commissioning status.

Alternative treatments and cost per patient per year

Other NICE recommended products:

Table 1: Cost of comparators⁵

Medicine	Dose Regimen	Cost per year
baricitinib	2 to 4mg orally once a day	£10,473
tofacitinib	5mg twice a day	£9,001
abatacept	125mg SC once a week	£15,725
tocilizumab	162 mg SC once a week	£11,871
tocilizumab	8mg/kg IV every four weeks	£9,984
certolizumab	400mg SC at weeks 0, 2, 4 then 200mg SC	£9,295
pegol	every two weeks	(£10,368 in year 1)
etanercept	50 mg SC once a week or 25mg twice a week	£9,295
adalimumab	40mg SC every two weeks	£9,156
golimumab	50 mg SC once a month	£9,156
infliximab	Initially 3 mg/kg by IV infusion at weeks 0, 2,	£6,786
	6, then every eight weeks	£10,179 (in year 1)

Doses are for general comparison and do not imply therapeutic equivalence. Costs are from eVadis on 16 May 2017, except infliximab (MIMS). Dose assumes weight of 70kg. Costs calculated using the full cost of vials/ampoules assuming wastage. Costs do not take any patient access schemes into consideration. IV = intravenous; SC = subcutaneous

This table (with additions) from the Scottish Medicines Consortium (SMC) does not include the price of biosimilar etanercept which is slightly over £5,000 per year and the additional infusion suite costs associated with the IV treatments.

Impact to patients		
 An additional treatment option of sarilumab would be valued by patients. Sarilumab 		
(administered once every two weeks) is in the same class of medicines as tocilizumab		
(administered once every week).		
• Sarilumab will be available under a homecare service so will be delivered directly to the		
patient.		
Impact to primary care prescribers		
This is a PbRe drug and is commissioned by CCGs for use in secondary care. There		
should be no prescribing in primary care.		
Primary care prescribers should be aware that their patient is receiving sarilumab and		
ensure that this is recorded in the patient's notes in order to be alert to potential side-		
effects and interactions with other medicines prescribed in primary care. This will also ensure that GP records, which are accessed by other healthcare providers, are a true		
and accurate reflection of the patient's medication.		
Impact to secondary care		
The initiation, administration and on-going treatment is managed by secondary care.		
 Homecare arrangements will be managed by the trust. 		
 An additional treatment option of sarilumab would be valued by clinicians. 		
Impact to CCGs		
The technology is commissioned by clinical commissioning groups (CCGs).		
Providers are NHS hospital trusts.		
There is a cohort of patients who are eligible to receive sarilumab although they have		
been through the available lines of treatment within the rheumatoid arthritis pathway.		
Implementation		
• NICE TA implementation must be within 90 days of publication – 1 February 2018.		
Blueteq forms to be developed.		
Trusts to initiate homecare.		
• Pathway discussed at Rheumatology Network. At present, the pathway comprises of 4		
lines of treatment, of which sarilumab is expected to be an option.		
Recommendation to PCN		
PbRe: Y		
Recommended traffic light status (see attached guidelines):		
RED		

Additional comments:

References:

- 1 eMC. Specification of Product Characteristics. Kevzara combined. Available at: https://www.medicines.org.uk/emc/medicine/33836 Accessed <6.9.17>
- 2 NHS Choices. <u>Rheumatoid arthritis symptoms. Available at:</u> <u>http://www.nhs.uk/Conditions/Rheumatoid-arthritis/Pages/Symptoms.aspx</u>Accessed <3.11.16>
- 3 NICE Resource impact report: Sarilumab for moderate to severe rheumatoid arthritis Published 1 November 2017. Available at: <u>https://www.nice.org.uk/guidance/ta485/resources/resource-impact-statement-4659397309</u> Accessed <7.11.17>

- 4 NICE Technology appraisal 485: Sarilumab for moderate to severe rheumatoid arthritis. Published 1 November 2017. Available at: <u>https://www.nice.org.uk/guidance/ta485</u> Accessed <7.11.17>
- 5 SMC. Baricitinib 2mg and 4mg film-coated tablet (Olumiant®) SMC No 1265/17. Available at: <u>http://www.scottishmedicines.org.uk/SMC_Advice/Advice/1265_17_baricitinib_Olumi</u> ant Accessed <12.9.17>

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Declaration of Interest:

None.

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None.

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Clinician comment:

VERSION CONTROL SHEET

Version	Date	Author	Status	Comment
1	7.11.17	T. Bahra	Draft	Out for peer review
2	16.11.17	T. Bahra	Final	Out for clinician comment
3	29.11.17	T. Bahra	Final	Final version for PCN