NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

Appraisal consultation document

Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

The Department of Health has asked the National Institute for Health and Care Excellence (NICE) to produce guidance on using certolizumab pegol and secukinumab in the NHS in England. The appraisal committee has considered the evidence submitted and the views of non-company consultees and commentators, clinical experts and patient experts.

This document has been prepared for consultation with the consultees. It summarises the evidence and views that have been considered, and sets out the recommendations made by the committee. NICE invites comments from the consultees and commentators for this appraisal and the public. This document should be read along with the evidence (see the committee papers).

The appraisal committee is interested in receiving comments on the following:

- Has all of the relevant evidence been taken into account?
- Are the summaries of clinical and cost effectiveness reasonable interpretations of the evidence?
- Are the recommendations sound and a suitable basis for guidance to the NHS?
- Are there any aspects of the recommendations that need particular consideration to ensure we avoid unlawful discrimination against any group of people on the grounds of race, gender, disability, religion or belief, sexual orientation, age, gender reassignment, pregnancy and maternity?

National Institute for Health and Care Excellence

Page 1 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

Note that this document is not NICE's final guidance on these technologies. The recommendations in section 1 may change after consultation.

After consultation:

- The appraisal committee will meet again to consider the evidence, this appraisal consultation document and comments from the consultees.
- At that meeting, the committee will also consider comments made by people who are not consultees.
- After considering these comments, the committee will prepare the final appraisal determination (FAD).
- Subject to any appeal by consultees, the FAD may be used as the basis for NICE's guidance on using certolizumab pegol and secukinumab in the NHS in England.

For further details, see NICE's guide to the processes of technology appraisal.

The key dates for this appraisal are:

Closing date for comments: 27 January 2017

Third appraisal committee meeting: TBC

Details of membership of the appraisal committee are given in section 7.

National Institute for Health and Care Excellence

Page 2 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

1 Recommendations

- 1.1 Certolizumab pegol alone, or in combination with methotrexate, is recommended as an option for treating active psoriatic arthritis in adults only if:
 - it is used as described in the NICE technology appraisal guidance on <u>etanercept, infliximab and adalimumab for the treatment of psoriatic</u> <u>arthritis</u> (recommendations 1.1 and 1.2) or
 - the person has had a TNF-alpha inhibitor but their disease has stopped responding after the first 12 weeks.

Certolizumab pegol is only recommended if the company provides it agreed in the patient access scheme.

- 1.2 Secukinumab alone, or in combination with methotrexate, is recommended as an option for treating active psoriatic arthritis in adults only if:
 - it is used as described in the NICE technology appraisal guidance on etanercept, infliximab and adalimumab for the treatment of psoriatic arthritis (recommendations 1.1 and 1.2) or
 - the person has had a TNF-alpha inhibitor but their disease has not responded within the first 12 weeks or has stopped responding after 12 weeks or
 - TNF-alpha inhibitors are contraindicated but would otherwise be considered (as described in NICE technology appraisal guidance on etanercept, infliximab and adalimumab for the treatment of psoriatic arthritis).

Secukinumab is only recommended if the company provides it with the discount agreed in the patient access scheme.

1.3 Assess the response to certolizumab pegol and secukinumab after12 weeks and 16 weeks of treatment respectively and only continue ifthere is clear evidence of response, defined as an improvement in at least

National Institute for Health and Care Excellence

Page 3 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

2 of the 4 Psoriatic Arthritis Response Criteria (PsARC) criteria (1 of which must be joint tenderness or swelling score), with no worsening in any of the 4 criteria. People whose disease has a Psoriasis Area and Severity Index (PASI) 75 response but whose PsARC response does not justify continuing treatment should be assessed by a dermatologist to determine whether continuing treatment is appropriate based on skin response (as described in the NICE technology appraisal guidance on etanercept, infliximab and adalimumab for the treatment of psoriatic arthritis, recommendation 1.3).

- 1.4 When using the PsARC healthcare professionals should take into account any physical, sensory or learning disabilities or communication difficulties that could affect a person's responses to components of the PsARC and make any adjustments they consider appropriate.
- 1.5 This guidance is not intended to affect the position of patients whose treatment with certolizumab pegol and secukinumab was started within the NHS before this guidance was published. Treatment of those patients may continue without change to whatever funding arrangements were in place for them before this guidance was published until they and their NHS clinician consider it appropriate to stop.

2 The technologies

Description of the technology	Certolizumab pegol (Cimzia, UCB Pharma) is a biological therapy (a recombinant humanised antibody Fab' fragment against TNF-alpha and is conjugated to polyethylene glycol).	
	Secukinumab (Cosentyx, Novartis) is a monoclonal antibody which targets interleukin 17A (IL-17A).	
Marketing authorisation	Certolizumab pegol has a marketing authorisation in the UK for treating active psoriatic arthritis in adults when the response to previous disease-modifying antirheumatic drug (DMARD) therapy has been inadequate, either:	
	in combination with methotrexate or	
	 as monotherapy, if methotrexate cannot be tolerated or when continued treatment with methotrexate is inappropriate. 	

National Institute for Health and Care Excellence

Page 4 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

Advance	Secukinumab has a marketing authorisation in the UK for treating active psoriatic arthritis in adults when the response to previous DMARD therapy has been inadequate, either: • in combination with methotrexate or • as monotherapy.
Adverse reactions	The most common treatment-related adverse events associated with certolizumab pegol and secukinumab include upper respiratory tract infections and nasopharyngitis. For full details of adverse reactions and contraindications, see the summary of product characteristics.
Recommended dose and	Certolizumab pegol is given subcutaneously:
schedule	 as a loading dose of 400 mg at weeks 0, 2 and 4
	 at a recommended maintenance dose of 200 mg every 2 weeks, after the loading dose. Once clinical response is confirmed, an alternative maintenance dosing of 400 mg every 4 weeks can be considered. Methotrexate should be continued during treatment where appropriate.
	Clinical response is usually achieved within 12 weeks of treatment. Continued therapy should be carefully reconsidered in patients whose disease has shown no evidence of therapeutic benefit within the first 12 weeks of treatment.
	Secukinumab is given subcutaneously:
	For patients with concomitant moderate to severe plaque psoriasis or patients whose disease has responded inadequately to TNF-alpha inhibitors, the initial recommended dose is 300 mg at weeks 0, 1, 2 and 3, followed by monthly maintenance dosing starting at week 4. Each 300 mg dose is given as 2 injections of 150 mg each.
	 For other patients, the recommended initial dose is 150 mg at weeks 0, 1, 2 and 3, followed by monthly maintenance dosing starting at week 4.
	Consideration should be given to stopping treatment in patients whose disease has shown no response by 16 weeks of treatment. Some patients whose disease has shown an initial partial response may subsequently improve with continued treatment beyond 16 weeks.

National Institute for Health and Care Excellence

Page 5 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

Price	Certolizumab pegol costs £357.50 per 200 mg prefilled pen or prefilled syringe. The company has agreed a patient access scheme with the Department of Health. The first 12 weeks of therapy with certolizumab pegol will be free of charge.
	Secukinumab costs £1,218.78 per 2 × 150 mg prefilled pen or syringe. The company has agreed a patient access scheme with the Department of Health. This scheme provides a simple discount to the list price of secukinumab, 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.

3 Evidence

The appraisal committee (section 7) considered evidence from a number of sources. See the committee papers for full details of the evidence.

4 Committee discussion

The appraisal committee reviewed the data available on the clinical and cost effectiveness of certolizumab pegol and secukinumab, having considered evidence on the nature of psoriatic arthritis and the value placed on the benefits of certolizumab pegol and secukinumab by people with the condition, those who represent them, and clinical experts. It also took into account the effective use of NHS resources.

Clinical need and practice

4.1 The committee heard from the patient experts about the nature of psoriatic arthritis and their experiences of treatment. It heard that psoriatic arthritis is a lifelong condition that has a serious effect on people's quality of life. It can develop at a young age, and affects all aspects of a person's life including education, career aspirations and family life. The committee heard from the patient experts that symptoms such as fatigue, pain and other associated comorbidities can have a major psychological impact.

National Institute for Health and Care Excellence

Page 6 of 36

The committee heard from the clinical experts that psoriatic arthritis not only affects joints and tendons but can also be associated with other debilitating conditions of the skin, bowel and eye and with metabolic syndrome. The committee recognised the importance to patients and clinical experts of addressing these associated comorbidities, which are not always captured in current research.

4.2 The committee heard from the clinical and patient experts that the psoriatic arthritis population is heterogeneous. Some people's disease responds to the first disease-modifying antirheumatic drug (DMARD), whereas other's disease may respond to a second or a third DMARD. Some people's disease may not respond at all. It heard from the clinical experts that in current UK clinical practice, people usually have 2 DMARDs before progressing to biological therapies (in line with guidelines from the British Society for Rheumatology and the European League Against Rheumatism, and in line with NICE technology appraisal guidance on etanercept, infliximab and adalimumab for the treatment of psoriatic arthritis). For people whose disease has poor prognostic markers, 2 or more DMARDs may be given at the same time to progress to biological therapies quicker. The committee was aware that the British Society for Rheumatology guidelines also mention that biological therapies (that is, tumour necrosis factor [TNF]-alpha inhibitors) can be considered in people with specific prognostic factors (including 5 or more swollen joints together with elevated C-reactive protein persisting for more than 3 months or structural joint damage caused by disease) when 1 DMARD has not worked. However, it was not convinced that this is established clinical practice in the NHS. Also, the committee heard from clinical experts that TNF-alpha inhibitors result in similar joint responses but different responses in comorbid illnesses, especially related to the skin. It also heard from clinical experts that people's disease may not respond to 1 TNF-alpha inhibitor but may respond to another and that although TNF-alpha inhibitors have similar safety profiles, people can have different adverse events. Therefore, to offer more options, there is a

National Institute for Health and Care Excellence

Page 7 of 36

clinical need for alternative therapies in the treatment pathway, particularly treatments with a different mechanism of action. The clinical experts commented that certolizumab pegol targets TNF-alpha and that secukinumab has a different mechanism of action, targeting interleukin 17A (IL-17A), which could potentially benefit people in whom TNF-alpha inhibitors are contraindicated or not tolerated. The committee heard from the clinical experts that both certolizumab pegol and secukinumab were effective therapies and that secukinumab 300 mg was particularly effective in severe psoriasis. The committee concluded that patients and clinicians consider certolizumab pegol and secukinumab to be important therapy options for people with active psoriatic arthritis whose disease has responded inadequately to previous DMARD therapies.

Clinical effectiveness

- 4.3 Nineteen randomised controlled trials were identified by the assessment group as meeting the criteria for inclusion in the systematic review of short-term efficacy:
 - 17 trials compared a biological therapy (and apremilast) with placebo, including RAPID-PsA (certolizumab pegol) and FUTURE 2 (secukinumab), which comprise the main clinical evidence.
 - 2 were head-to-head comparisons comparing 1 biological therapy with another biological therapy.
- The committee noted that many of the trials included in the systematic review were of good quality, and had a reasonably low risk of bias. The key outcomes of interest to the assessment group were the American College of Rheumatology response criteria, Psoriatic arthritis response criteria (PsARC), Psoriasis Area and Severity Index (PASI), health assessment questionnaire, and health assessment questionnaire conditional on PsARC data. The committee concluded that the trials were of good quality and the outcomes were appropriate.

National Institute for Health and Care Excellence

Page 8 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

Companies' clinical effectiveness evidence

- 4.5 The committee mainly considered the clinical effectiveness evidence from the trials identified for certolizumab pegol (RAPID-PsA) and secukinumab (FUTURE 2). It noted that patients whose disease did not respond to a TNF-alpha inhibitor in the first 12 weeks of treatment (primary treatment failure) were excluded from RAPID-PsA.
- 4.6 The committee considered the clinical effectiveness evidence presented in the company submissions and discussed the results of the RAPID-PsA (certolizumab pegol) and FUTURE 2 (secukinumab) trials. It noted that both biological therapies showed short-term efficacy in treating psoriatic arthritis. When considering the full trial population, certolizumab pegol and secukinumab were associated with statistically significant improvements in all key outcomes. When the trial population was split into subpopulations based on previous biological therapy experience, the committee acknowledged that the results became difficult to compare. The committee noted that the comparison of RAPID-PsA and FUTURE 2 with clinical trials for other biological therapies (and apremilast) was not straightforward. Firstly, the committee noted that populations recruited in clinical trials have changed over time, with earlier trials excluding patients who had previously had biological therapies (that is, biological experienced) and later trials including such patients. There is variation across trials in the exclusion criteria for the biological-experienced subpopulation. The RAPID-PsA trial is more selective than the FUTURE 2 (secukinumab), PSUMMIT2 (ustekinumab) and PALACE (apremilast) trials in recruiting patients who have had treatment with a biological therapy because it excluded patients whose disease had not responded to a TNF-alpha inhibitor in the first 12 weeks of treatment (see section 4.5). Secondly, the committee noted that placebo response rates have increased markedly over time across the trials, referred to as 'placebocreep'. The committee concluded that because these issues had either not been accounted for (secukinumab) or because it was unclear how they had been accounted for (certolizumab pegol) in the company

National Institute for Health and Care Excellence

Page 9 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

submissions, it was not possible to make reliable conclusions about the difference in the efficacy of certolizumab pegol and secukinumab using the companies' analyses.

4.7 The committee noted that treatment with certolizumab pegol and secukinumab resulted in statistically significant improvements in healthrelated quality-of-life measures and in improvements in extra-articular manifestations such as dactylitis (that is, inflammation of the fingers or toes) and enthesitis (that is, inflammation of tendons or ligaments). The committee noted that UCB submitted evidence on the impact of certolizumab pegol on pain and fatigue measured by the SF-36 and FASCA (Fatigue Assessment Scale) questionnaires. This was because the company believed that these outcomes may not have been captured in the assessment group's model, which is based on a mapping from the health assessment questionnaire and PASI to a utility score. The committee noted that the company provided values, but it was unable to determine the impact of any potential adjustment on the quality-adjusted life year (QALY) gained. The committee was satisfied that both certolizumab pegol and secukinumab resulted in significantly statistically improvements in health-related quality of life.

Assessment group's network meta-analysis

4.8 The committee discussed the results of the network meta-analysis done by the assessment group. It noted that separate analyses were done for each outcome for patients who had had biological therapy, and for patients who had not had biological therapy, to acknowledge the difference in efficacy response in both subpopulations. It also noted that, because of the lack of data, the biological-naive subpopulation (that is, patients who have not had biological therapy before) comprised those patients whose disease had not responded to 1 or more DMARDs.

Although it was unclear how many DMARDs patients in the biological-naive subpopulation had previously had, the committee was aware from clinical experts that the efficacy of a biological therapy was not expected

National Institute for Health and Care Excellence

Page 10 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

to differ between a patient who has had 1 previous DMARD and a patient who has had 2 previous DMARDs. The committee concluded that the biological-naive subpopulation in the network meta-analysis matched the subpopulation specified in the final NICE scope and it was therefore appropriate to use their data in the cost-effectiveness analysis.

- 4.9 The committee noted that the assessment group developed several models for use in the cost-effectiveness analysis. These included a model adjusted for 'placebo-creep' (see section 4.6) and exploring the possibility of class effects (adjusted model), as well as a model without any adjustment (independent model). The committee heard from the assessment group and the companies that 'placebo-creep' had been seen in other clinical areas. The committee acknowledged that there was no conclusion on why this occurred. The committee heard from the clinical expert that although ustekinumab (targets IL-12 and IL-23) and secukinumab (targets IL-17A) had a similar clinical pathway, they behaved differently in terms of efficacy and safety and therefore should not be grouped in the same class. The committee heard from the assessment group that adjustment by class reflected any differences in treatment effect within a class. The committee concluded it was reasonable to take into account the adjustment for both 'placebo-creep' and class effect in the analyses.
- 4.10 The committee noted that the assessment group excluded certolizumab pegol (RAPID-PsA) treatment data from the biological-experienced population network meta-analysis because of the differences in trial eligibility based on the definition of treatment-experienced in PSUMMIT2 (ustekinumab) and FUTURE 2 (secukinumab). In RAPID-PsA, patients whose disease had not responded to a TNF-alpha inhibitor in the first 12 weeks of treatment (see section 4.5) were excluded and only patients whose disease did not respond after 12 weeks, or initially responded but failed to respond thereafter (secondary treatment failure) were included in the biological-experienced subpopulation. In PSUMMIT2 and FUTURE 2,

National Institute for Health and Care Excellence

Page 11 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

a mix of patients with early or late primary treatment failure or with secondary treatment failure of a previous TNF-alpha inhibitor were included. The clinical experts agreed that patients with early primary treatment failure would respond differently to a subsequent second biological therapy (that is, TNF-alpha inhibitors). The committee concluded that patients whose disease did not initially respond to a first biological therapy represent a separate subgroup within the overall biological-experienced subpopulation. The committee concluded that it was reasonable for the assessment group to have excluded certolizumab pegol (RAPID-PsA) treatment data from the biological-experienced population network meta-analysis.

4.11 The committee noted that certolizumab pegol and secukinumab showed short-term efficacy in treating psoriatic arthritis compared with placebo. In the biological-naive population, all outcomes showed that certolizumab pegol and secukinumab were effective, but their relative effectiveness compared with etanercept, adalimumab, golimumab and infliximab and with each other, was uncertain, with different treatments being more effective depending on the outcome and analysis (independent and adjusted model). Both certolizumab pegol and secukinumab were consistently more effective than apremilast. The committee noted that the results appeared to show that secukinumab and infliximab are the most effective in terms of PASI response, but this difference was not statistically significant when adjusting for placebo response. In the biological-experienced subpopulation, when only secukinumab 300 mg and ustekinumab were included in the analyses, the results showed that across all outcomes analysed, both secukinumab 300 mg and ustekinumab were statistically significantly more effective than placebo. Most of the outcomes suggested secukinumab 300 mg may be more efficacious than ustekinumab. However, the patient numbers in the biological-experienced subpopulation were quite low; the results were therefore uncertain (with wide overlapping credible intervals). The clinical experts stated that they could not distinguish between the TNF-alpha

National Institute for Health and Care Excellence

Page 12 of 36

inhibitors in improving joint symptoms in clinical practice and would therefore choose 1 of the therapies based on availability and the patient's comorbidities. The committee concluded that although there were limitations in the analyses, it considered that certolizumab pegol and secukinumab were similar to the other therapies in improving joint symptoms in both biological-naive and experienced subpopulations.

Safety profile

4.12 The committee heard from the clinical experts that there was no concern about additional adverse events for certolizumab pegol and secukinumab over other biological therapies. The committee concluded that the safety profiles of certolizumab pegol and secukinumab were comparable.

Cost effectiveness

- 4.13 The committee considered the economic models from the companies and the assessment group. The committee noted that the assessment group updated the York economic model submitted for the NICE technology appraisal guidance on etanercept, infliximab and adalimumab for the treatment of psoriatic arthritis. The update:
 - allowed some subgroups to have another active treatment before reverting to best supporting care
 - included patients who had initially responded to TNF-alpha inhibitors but whose disease failed to respond thereafter (see section 4.10)
 - modelled all subpopulations specified in the NICE scope, as well as patients for whom TNF-alpha inhibitors are contraindicated (subpopulation 4)
 - took into account heterogeneity in terms of baseline PASI with results for 3 subgroups within each subpopulation (psoriatic arthritis without concomitant psoriasis, with concomitant mild to moderate psoriasis, with concomitant moderate to severe psoriasis).

National Institute for Health and Care Excellence

Page 13 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

The committee concluded that the assessment group's economic model was the most relevant to use for decision-making given its appropriate updates.

Disease management

- 4.14 The committee noted that the assessment group used the same source for disease management costs (specifically health assessment questionnaire costs) as the previous York model (Kobelt et al. 2002) in its base-case analysis. The costs from Kobelt et al. addressed only the arthritis component of psoriatic arthritis, so additional costs were needed to capture the psoriasis element of the disease. The committee noted that another source (Poole et al. 2010) was also considered by the assessment group. Although the study by Poole et al. reported health assessment questionnaire estimates derived from a sample of psoriatic arthritis patients rather than from a sample of rheumatoid arthritis patients (Kobelt et al.), the committee noted the potential limitations of the study, including limited clarity on estimating costs in the model and the total uncertainty surrounding model estimates. The use of the study by Poole et al. was therefore explored as a separate scenario. The committee noted that using the costs from Poole et al. significantly reduces the incremental cost-effectiveness ratios (ICERs) for all treatments relative to best supportive care, although the optimal treatment remained consistent with the base-case analysis across all scenarios. The committee concluded that using the same source as the previous York model was an appropriate choice and its use is consistent across the separate NICE technology appraisals on golimumab and ustekinumab for treating active psoriatic arthritis.
- 4.15 The committee considered the results of the assessment group's basecase model for 4 subpopulations in line with the proposed positions of
 certolizumab pegol and secukinumab in the treatment pathway and
 3 subgroups according to severity of psoriasis. The committee noted that
 the assessment group took into consideration the different marketing

National Institute for Health and Care Excellence

Page 14 of 36

authorisations of secukinumab 150 mg and 300 mg according to psoriasis severity (secukinumab 150 mg is licensed for no concomitant psoriasis and mild to moderate psoriasis, secukinumab 300 mg is licensed for moderate to severe psoriasis). Best supportive care is defined as a mix of DMARDs and palliative care.

Subpopulation 1: 1 previous DMARD but no biological therapy

4.16 In response to the first appraisal consultation document, Novartis provided additional clinical evidence from FUTURE 2 for subpopulation 1 (people with psoriatic arthritis whose disease had not responded adequately to 1 DMARD). The committee noted that Novartis put the additional clinical evidence into the assessment group's model and generated ICERs comparing secukinumab with best supportive care in all 3 psoriasis subgroups (psoriatic arthritis without concomitant psoriasis, with concomitant mild to moderate psoriasis, with concomitant moderate to severe psoriasis). Although the committee acknowledged that the ICERs were below £20,000 per QALY gained when taking into account the patient access scheme for secukinumab, it identified a number of concerns. The committee heard from the assessment group that the analysis done by Novartis only included secukinumab and best supportive care and therefore was lacking the full comparator set for subpopulation 1, in particular the other biological treatments (etanercept, infliximab, adalimumab and golimumab), which according to their licences could be used in subpopulation 1. Because ICERs are calculated incrementally relative to comparator therapies, without the all appropriate comparators in the analyses, the ICERs presented could misrepresent the true cost effectiveness by a large margin. The committee was aware that comparators included in both the assessment group's model and the additional analysis done by Novartis was to ensure consistency with the NICE scope. It noted that when the scope was written it reflected current treatment at that time (use of biological therapy after 2 DMARDs), but clinical practice may have moved on and the use of biological therapy after 1 DMARD may be becoming more common. However, the

National Institute for Health and Care Excellence

Page 15 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

committee was not convinced that the use of biological therapy after 1 DMARD is established clinical practice in the NHS (see section 4.2) and if it is, in which specific group of people it is used. The committee added that given this potential shift in use of biological therapy for psoriatic arthritis, and in particular for new technologies, one of which has a different mechanism of action (see section 4.2), it needed to be very certain about the cost effectiveness of certolizumab pegol and secukinumab in subpopulation 1. The committee recognised that the full sequence of treatments (that is, the treatments a patient has after the firstline treatment) should have been modelled to better capture all the incremental cost and effect differences between the technologies. Without the adequate inclusion of subsequent treatments, the analyses could misrepresent the true ICER. For these reasons, the committee agreed it could not reach a conclusion on the cost effectiveness of certolizumab pegol and secukinumab in subpopulation 1. It also acknowledged the previous discussion that, in clinical practice, TNF-alpha inhibitors are usually used after adequate trials of 2 DMARDs (see section 4.2). The committee concluded it was unable to recommend certolizumab pegol and secukinumab as treatment options for people with psoriatic arthritis whose disease had not responded adequately to 1 DMARD.

Subpopulation 2: at least 2 previous DMARDs and no biological therapy

4.17 The committee considered that in all psoriasis subgroups, certolizumab pegol and secukinumab 150 mg and 300 mg were cost effective compared with best supportive care, when taking into account the patient access scheme for both therapies. ICERs for both strengths of secukinumab were less than £20,000 per QALY gained compared with best supportive care. For certolizumab pegol, the ICERs were close to, or less than £20,000 per QALY gained compared with best supportive care. The committee considered that the cost effectiveness for certolizumab pegol and secukinumab was acceptable when the criteria in etanercept, infliximab and adalimumab for the treatment of psoriatic arthritis are met;

National Institute for Health and Care Excellence

Page 16 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

that is, the person has peripheral arthritis with at least 3 tender joints and at least 3 swollen joints, and the psoriatic arthritis has not responded to adequate trials of at least 2 standard DMARDs, given either individually or in combination. The committee therefore concluded that certolizumab pegol and secukinumab could be recommended as treatment options for people with psoriatic arthritis if used as described in the NICE technology appraisal guidance on etanercept, infliximab and adalimumab for the treatment of psoriatic arthritis.

Subpopulation 3: patients who have had biological therapies

- 4.18 The committee noted that secukinumab 300 mg was considered as a relevant intervention, alongside ustekinumab and best supportive care, in patients who have had biological therapy. Certolizumab pegol was not included in subpopulation 3 because only patients whose disease had initially responded to a biological treatment and stopped responding thereafter were included in the RAPID-PsA trial (see section 4.10). The committee considered that secukinumab 300 mg was cost effective in patients who had had biological therapy (including primary and secondary treatment failures) with ICER values below, or close to, £20,000 per QALY gained compared with best supportive care, when taking into account the patient access scheme for secukinumab 300 mg. The committee therefore concluded that secukinumab 300 mg could be recommended as a treatment option for people with psoriatic arthritis whose disease has not responded adequately to 2 DMARDs and has not responded to a TNFalpha inhibitor within the first 12 weeks or has stopped responding after 12 weeks and only when taking into account the patient access scheme for secukinumab 300 mg.
- 4.19 The committee noted the assessment group did a separate costeffectiveness analysis (as part of the scenario analysis) for patients whose
 disease has stopped responding to a TNF-alpha inhibitor after the first
 12 weeks. It was aware that, in the absence of data for other comparators
 for this subgroup, the comparison is restricted to certolizumab pegol and

National Institute for Health and Care Excellence

Page 17 of 36

best supportive care. The committee noted that for certolizumab pegol compared with best supportive care, the ICERs were below, or very close to, £20,000 per QALY gained, when taking into account the patient access scheme for certolizumab pegol. The committee therefore concluded that certolizumab pegol could be recommended as a treatment option for people with psoriatic arthritis whose disease has not responded adequately to 2 DMARDs and whose disease has stopped responding to a TNF-alpha inhibitor after the first 12 weeks, and only when taking into account the patient access scheme.

Subpopulation 4: patients in whom TNF-alpha inhibitors are contraindicated

4.20 The committee noted that secukinumab was compared with ustekinumab and best supportive care. It noted that certolizumab pegol was not included because it was assumed that other TNF-alpha inhibitors including certolizumab pegol would be contraindicated in these patients. In the absence of effectiveness data for these patients, the analysis was done using data from the biological-naive populations from the secukinumab and ustekinumab trial. The committee heard from clinical experts that this was considered a reasonable approach. The committee noted that the assessment group considered the different licensed strengths of secukinumab 150 mg and 300 mg according to psoriasis severity (see section 4.16). The committee noted that secukinumab 150 mg and 300 mg compared with best supportive care resulted in ICERs below £20,000 per QALY gained in patients without concomitant psoriasis, with mild to moderate psoriasis and with moderate to severe psoriasis, when taking into account the patient access scheme for secukinumab. The committee therefore concluded that secukinumab could be recommended as a treatment option for people with psoriatic arthritis in whom TNF-alpha inhibitors are contraindicated but would otherwise be considered, and only when taking into account the patient

National Institute for Health and Care Excellence

access scheme for secukinumab.

Page 18 of 36

The committee noted that the economic analyses (in all populations) were based on the assumption that people whose psoriatic arthritis has not shown an adequate PsARC response at 12 weeks and 16 weeks stop treatment with certolizumab pegol and secukinumab, respectively. The committee considered that the recommendation to stop treatment based on an inadequate PsARC response (as defined in the NICE technology appraisal guidance on etanercept, infliximab and adalimumab for the treatment of psoriatic arthritis) was also appropriate for certolizumab pegol and secukinumab (assessed at 12 weeks and 16 weeks respectively). It noted that some people may have physical, sensory or learning disabilities or communication difficulties that could affect their responses to components of the PsARC, and concluded that this should be taken into account when using the PsARC.

Innovation

4.22 The committee noted the convenience of self-administration. It concluded that secukinumab and certolizumab pegol are important treatments and represent additional options for patients with active psoriatic arthritis that has not responded to prior DMARDs. It was aware of its earlier conclusion that although UCB provided evidence of certolizumab pegol's impact on pain and fatigue, it was not possible to determine the impact of any potential adjustment on the QALY because the assessment group's modelling involved mapping from the health assessment questionnaire and PASI to a utility score (see section 4.7). It noted that if health benefits have been missed, this would apply across all the interventions and comparators. Therefore the committee concluded that there were no other significant health benefits that had not been captured in the costeffectiveness model.

Summary of appraisal committee's key conclusions

TAXXX	Appraisal title: Certolizumab pegol and	Section
	secukinumab for treating active	

National Institute for Health and Care Excellence

Page 19 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

	psoriatic arthritis after inadequate	
	response to DMARDs	
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Key conclusion		
Certolizumab pegol ald	one, or in combination with methotrexate, is	1.1
recommended as an o	ption for treating active psoriatic arthritis in	
adults only if:		
• it is used	as described in NICE technology appraisal	
	on etanercept, infliximab and adalimumab	
_	eatment of psoriatic arthritis	
	endations 1.1 and 1.2) or	
`	on has had a TNF-alpha inhibitor but their	
	nas stopped responding after the first	
12 weeks		
	b pegol is only recommended if the	
scheme.	ovides it as agreed in the patient access	
Scrienie.		
Secukinumab alone, o	r in combination with methotrexate, is	
recommended as an o	ption for treating active psoriatic arthritis in	1.2
adults only if:		
• it is used	as described in NICE technology appraisal	
	on etanercept, infliximab and adalimumab	
	eatment of psoriatic arthritis	
	endations 1.1 and 1.2) or	
,	on has had a TNF-alpha inhibitor but their	
•	nas not responded within the first 12 weeks	
	opped responding after 12 weeks or	
	na inhibitors are contraindicated but would	
	e be considered (as described in NICE	
	gy appraisal guidance on etanercept,	
1000	appraisal galactics of stationospt	

National Institute for Health and Care Excellence

Page 20 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

infliximab and adalimumab for the treatment of psoriatic arthritis).

Secukinumab is only recommended if the company provides it with the discount agreed in the patient access scheme.

For subpopulation 1 (1 previous disease-modifying antirheumatic drug [DMARD] but no biological therapy), the committee was aware that comparators included in both the assessment group's analysis and the additional analysis done by Novartis was to ensure consistency with the NICE scope. It noted that, when the scope was written, it reflected current treatment at the time (use of biological therapy after 2 DMARDs), but clinical practice may have moved on and use of biological therapy after 1 DMARD may be becoming more common. However, the committee was not convinced that the use of biological therapy after 1 DMARD is established clinical practice in the NHS, and if it is, in which specificgroup of people it is used. The committee added that given the potential shift in clinical practice for psoriatic arthritis, it needed to be very certain about the cost effectiveness of certolizumab pegol and secukinumab in subpopulation 1. The committee added that given this potential shift in use of biological therapy for psoriatic arthritis, and in particular for new technologies, one of which has a different mechanism of action (see section 4.2), it needed to be very certain about the cost effectiveness of certolizumab pegol and secukinumab in subpopulation 1. The committee recognised that the full sequence of treatments (that is, the treatments a patient has after the first-line treatment) should have been modelled to better capture all the incremental cost and effect differences between the technologies. Without the adequate inclusion of subsequent treatments, the analyses could misrepresent the true ICER. For these reasons, the committee

4.16

agreed it could not reach a conclusion on the cost effectiveness of certolizumab pegol and secukinumab in subpopulation 1. It also acknowledged the previous discussion that, in clinical practice, TNF-alpha inhibitors are usually used after adequate trials of 2 DMARDs

For subpopulation 2 (at least 2 previous DMARDs and no biological therapy), the committee noted that, in all psoriasis subgroups, certolizumab pegol and secukinumab 150 mg and 300 mg were cost effective compared with best supportive care, when taking into account the patient access scheme for both therapies. Incremental cost-effectiveness ratios (ICERs) for both strengths of secukinumab were less than £20,000 per quality-adjusted life year (QALY) gained compared with best supportive care. For certolizumab pegol, the ICERs were close to, or less than £20,000 per QALY gained compared with best supportive care. The committee therefore concluded that certolizumab pegol and secukinumab could be recommended as treatment options for people with psoriatic arthritis if used as described for the TNF-alpha inhibitors in NICE technology appraisal guidance on etanercept, infliximab and adalimumab for the treatment of

For subpopulation 3 (patients who have had biological therapies), the committee reviewed 2 subgroups:

 People with psoriatic arthritis whose disease has not responded adequately to 2 DMARDs and has not responded to TNF-alpha inhibitors within the first 12 weeks or has stopped responding after 12 weeks; the committee noted that secukinumab 300 mg was cost effective compared with best supportive care. ICERs were below, or close to, £20,000 per QALY gained, when taking into account the 4.17

4.18, 4.19

National Institute for Health and Care Excellence

Page 22 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

Issue date: December 2016

psoriatic arthritis.

patient access scheme for secukinumab 300 mg. The committee concluded that secukinumab 300 mg could be recommended as a treatment option in this patient population only when taking into account the patient access scheme for secukinumab 300mg.

• People with psoriatic arthritis whose disease has not responded adequately to 2 DMARDs and whose disease has not responded adequately to DMARDs and whose disease has stopped responding to TNF-alpha inhibitors after the first 12 weeks; the committee noted that certolizumab pegol was cost effective compared with best supportive care with ICERs below or very close to £20,000 per QALY gained, when taking into account the patient access scheme for certolizumab pegol.

For subpopulation 4 (patients in whom TNF-alpha inhibitors are contraindicated), the committee noted that secukinumab 150 mg and 300 mg compared with best supportive care resulted in ICERs below £20,000 per QALY gained in all psoriasis subgroups, when taking into account the patient access scheme for secukinumab. The committee concluded that secukinumab could be recommended as a treatment option for people with psoriatic arthritis in whom TNF-alpha inhibitors are contraindicated but would otherwise be considered (as described in NICE technology appraisal guidance on etanercept, infliximab and adalimumab for the treatment of psoriatic arthritis), and only when taking into account the patient access scheme for secukinumab.

4.20

Current practice

Clinical need of	The committee recognised the importance	4.1, 4.2
patients, including	to patients and clinical experts of	
the availability of	addressing the associated comorbidities,	

National Institute for Health and Care Excellence

Page 23 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

alternative	which are not always captured in current	
treatments	research. It also heard that response to	
	treatment is heterogeneous in terms of	
	efficacy and safety. Therefore there is a	
	clinical need for alternative therapies in the	
	treatment pathway to offer more options,	
	particularly in people with active psoriatic	
	arthritis whose disease has responded	
	inadequately to previous DMARD	
	therapies.	
The technologies		
Proposed benefits of	The committee heard from the clinical	4.2, 4.22
the technology/ies	experts that secukinumab has a different	
	mechanism of action, which could	
How innovative is the	potentially benefit people in whom TNF-	
technology/are the	alpha inhibitors are contraindicated or not	
technologies in	tolerated. The committee noted the	
its/their potential to	convenience of self-administration for	
make a significant	certolizumab pegol and secukinumab. It	
and substantial	concluded that there were no other	
impact on health-	significant health benefits that had not been	
related benefits?	captured in the cost-effectiveness model.	
What is the position	The treatments are for:	
of the treatments in		
the pathway of care	people whose disease has responded	4.2
for the condition?	inadequately to at least 2 DMARDs, in	
	line with guidelines from the British	
	Society for Rheumatology and the	
	European League Against Rheumatism,	
	and NICE technology appraisal	
	guidance on <u>etanercept, infliximab and</u>	

National Institute for Health and Care Excellence

Page 24 of 36

	adalimumab for the treatment of	
	psoriatic arthritis	
	people with psoriatic arthritis whose	4.18
	disease has not responded adequately	7.10
	to at least 2 DMARDs and TNF-alpha	
	inhibitors within the first 12 weeks or	
	has stopped responding after 12 weeks	
	people with psoriatic arthritis whose	
	disease has not responded to at least	4.19
	2 DMARDs and has stopped responding	
	to TNF-alpha inhibitor after the first	
	12 weeks	
	people in whom TNF-alpha inhibitors	4.20
	are contraindicated.	
Adverse reactions	The committee heard from the clinical	4.12
	experts that there was no concern about	
	additional adverse events for certolizumab	
	pegol and secukinumab over other	
	biological therapies.	
Evidence for clinical	effectiveness	
Availability, nature	The committee noted that the main sources	4.3, 4.4
and quality of	of evidence were RAPID-PsA (certolizumab	1.0, т.т
evidence	pegol) and FUTURE 2 (secukinumab). The	
311431133	trials compared a biological therapy (and	
	apremilast) with placebo. The committee	
	considered that both trials were of good	
	quality and had a reasonably low risk of	
	bias.	

National Institute for Health and Care Excellence

Page 25 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

The committee considered the results of	
the network meta-analysis done by the	4.0
assessment group. It noted that separate	4.8
analyses were done for each outcome for	
patients who had had biological therapy,	
and for patients who had not had biological	
therapy to acknowledge the difference in	
efficacy response in both subpopulations.	

Relevance to general	There were no direct head-to-head trials	
clinical practice in the	with treatments currently used in the NHS.	
NHS		
	The committee concluded that the	4.8
	biological-naive subpopulation in the	
	network meta-analysis matched the	
	subpopulation specified in the final NICE	
	scope and it was therefore appropriate to	
	use their data in the cost-effectiveness	
	analysis.	
	In RAPID-PsA, patients whose disease had	
	not responded to a TNF-alpha inhibitor in	4.10
	the first 12 weeks of treatment were	
	excluded and only patients whose disease	
	did not respond after 12 weeks, or initially	
	responded but failed to respond thereafter	
	(secondary treatment failure) were included	
	in the biological-experienced	
	subpopulation. The committee concluded	
	that patients whose disease did not initially	
	respond to a first biological therapy	
	represent a separate subgroup within the	
	overall biologic-experienced subpopulation.	
	The committee concluded that it was	
	reasonable for the assessment group to	
	have excluded certolizumab pegol	
	(RAPID-PsA) treatment data from the	
	biological-experienced population network	
	meta-analysis.	
	The committee noted that populations	
	The committee noted that populations	4.6
	recruited in clinical trials have changed	

National Institute for Health and Care Excellence

Page 27 of 36

over time, with earlier trials excluding	
patients who had previously had biological	
therapies and later trials including such	
patients.	

National Institute for Health and Care Excellence

Page 28 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

Uncertainties	Placebo response rates have increased	4.6, 4.9
generated by the	markedly over time across the trials,	
evidence	referred to as 'placebo-creep'. The	
	committee concluded it was reasonable to	
	take into account the adjustment for both	
	'placebo-creep' and class effect.	
	The committee concluded that because	4.6
	these issues had either not been accounted	
	for (secukinumab) or because it was	
	unclear how they had been accounted for	
	(certolizumab pegol) in the company	
	submissions, it was not possible to make	
	reliable conclusions about the difference in	
	the efficacy of certolizumab pegol and	
	secukinumab using the companies'	
	analyses.	
	analyses.	
Are there any	See 'What is the position of the treatments	_
clinically relevant	in the pathway of care for the condition?'	
subgroups for which		
there is evidence of		
differential		
effectiveness?		
Estimate of the size	The committee concluded that although	4.11
of the clinical	there were limitations in the analyses, it	
effectiveness	considered that certolizumab pegol and	
including strength of	secukinumab were similar to the other	
supporting evidence	therapies in improving joint symptoms in	
	both biological-naive and experienced	
	subpopulations.	
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National Institute for Health and Care Excellence

Page 29 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

The committee noted that treatment with certolizumab pegol and secukinumab resulted in statistically significant improvements in health-related quality-of-life measures and in improvements in extra-articular manifestations such dactylitis (that is, inflammation of the fingers or toes) and enthesitis (that is, inflammation of tendons or ligaments).

4.7

Evidence for cost effectiveness

Availability and nature of evidence

the committee was aware that comparators included in both the assessment group's analysis and the additional analysis done by Novartis was to ensure consistency with the NICE scope. It noted that, when the scope was written, it reflected current treatment at the time (use of biological therapy after 2 DMARDs), but clinical practice may have moved on and use of biological therapy after 1 DMARD may be becoming more common. However, the committee was not convinced that the use of biological therapy after 1 DMARD is established clinical practice in the NHS, and if it is, in which specificgroup of people it is used. The committee added that given the potential shift in clinical practice for psoriatic arthritis, it needed to be very certain about the cost effectiveness of certolizumab pegol and secukinumab in subpopulation 1. The committee added that 4.16

National Institute for Health and Care Excellence

Page 30 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

	given this potential shift in use of biological	
	therapy for psoriatic arthritis, and in	
	particular for new technologies, one of	
	which has a different mechanism of action,	
	it needed to be very certain about the cost	
	effectiveness of certolizumab pegol and	
	secukinumab in subpopulation 1. The	
	committee recognised that the full	
	sequence of treatments (that is, the	
	treatments a patient has after the first-line	
	treatment) should have been modelled to	
	better capture all the incremental cost and	
	effect differences between the	
	technologies. Without the adequate	
	inclusion of subsequent treatments, the	
	analyses could misrepresent the true ICER.	
	The committee concluded that the	
	biological-naive subpopulation in the	4.8
	network meta-analysis matched the	
	subpopulation specified in the final NICE	
	scope and it was therefore appropriate to	
	use their data in the cost-effectiveness	
	analysis.	
Uncertainties around	Although the committee acknowledged that	4.16
and plausibility of	the ICERs were below £20,000 per QALY	
assumptions and	gained when taking into account the patient	
inputs in the	access scheme for secukinumab, it	
economic model	identified a number of concerns.	

Incorporation of	No other health-related benefits have been	4.22
health-related	identified that have not been captured in	
quality-of-life benefits	the QALY calculation.	
and utility values		
Have any potential		
significant and		
substantial health-		
related benefits been		
identified that were		
not included in the		
economic model, and		
how have they been		
considered?		
Are there specific	The committee considered the results of	4.16 to 4.20
groups of people for	the assessment group's base-case model	
whom the	for 4 subpopulations in line with the	
technology/ies is/are	proposed positions of certolizumab pegol	
particularly cost	and secukinumab in the treatment pathway	
effective?	and 3 subgroups according to severity of	
	psoriasis.	
	poortiuoioi	
What are the key	The committee noted that the use of a	4.14
drivers of cost	different source of disease management	
effectiveness?	costs impacted significantly on the ICERs	
	for all treatments relative to best supportive	
	care, although the optimal treatment	
	remained consistent with the base-case	
	analysis across all scenarios.	
Most likely cost-	The committee concluded that certolizumab	4.17, 4.18,
effectiveness	pegol is cost effective in 2 subpopulations	4.19
	(patients who had at least 2 previous	

National Institute for Health and Care Excellence

Page 32 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

estimate (given as an	DMARDs and no biological therapy, and			
ICER)	patients who have had TNF-alpha inhibitors			
	whose disease has stopped responding to			
	TNF-alpha inhibitor after the first 12 weeks)			
	with ICERs below, or close to, £20,000 per			
	QALY gained when taking into account the			
	proposed patient access scheme for			
	certolizumab pegol.			
	The committee concluded that			
	secukinumab is cost effective in			
	3 subpopulations (patients who had at least	4 17 4 10		
	2 previous DMARDs and no biological	4.17, 4.18,		
	therapy, and patients who have had	4.20		
	TNF-alpha inhibitors whose disease has			
	not responded to TNF-alpha inhibitors			
	within the first 12 weeks or has stopped			
	responding after 12 weeks, and patients in			
	whom TNF-alpha inhibitors are			
	contraindicated) with ICERs below, or close			
	to, £20,000 per QALY gained only when			
	taking into account the patient access			
	scheme for secukinumab.			
Additional factors taken into account				
Patient access	Patient access schemes were taken into	_		
schemes (PPRS)	account for certolizumab pegol, golimumab,			
	ustekinumab and secukinumab.			
	determination and occumination.			
End-of-life	Not applicable	_		
considerations				

Equalities	The committee noted that some people	4.21
considerations and	may have physical, sensory or learning	
social value	disabilities or communication difficulties	
judgements	that could affect their responses to	
	components of the Psoriatic Arthritis	
	Response Criteria (PsARC), and concluded	
	that healthcare professionals should take	
	this into account when using the PsARC.	

5 Implementation

- 5.1 Section 7(6) of the National Institute for Health and Care Excellence

 (Constitution and Functions) and the Health and Social Care Information

 Centre (Functions) Regulations 2013 requires clinical commissioning

 groups, NHS England and, with respect to their public health functions,
 local authorities to comply with the recommendations in this appraisal

 within 3 months of its date of publication.
- The Welsh Assembly Minister for Health and Social Services has issued directions to the NHS in Wales on implementing NICE technology appraisal guidance. When a NICE technology appraisal recommends the use of a drug or treatment, or other technology, the NHS in Wales must usually provide funding and resources for it within 3 months of the guidance being published.
- 5.3 When NICE recommends a treatment 'as an option', the NHS must make sure it is available within the period set out in the paragraphs above. This means that, if a patient has active psoriatic arthritis and the doctor responsible for their care thinks that certolizumab pegol or secukinumab are the right treatments, it should be available for use, in line with NICE's recommendations.

National Institute for Health and Care Excellence

Page 34 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

The Department of Health and Novartis have agreed that secukinumab will be available to the NHS with a patient access scheme which makes it available with a discount. The Department of Health and UCB have agreed that a patient access scheme for certolizumab pegol which provides a rebate to the list price of certolizumab pegol, applied at the point of purchase or invoice. The NHS will not pay for certolizumab pegol for the first 12 weeks. The size of these discounts is commercial in confidence. It is the responsibility of the companies to communicate details of the discount to the relevant NHS organisations. Any enquiries from NHS organisations about the patient access scheme for secukinumab should be directed to [NICE to add details at time of publication] and for certolizumab pegol should be directed to

6 Proposed date for review of guidance

6.1 NICE proposes that the guidance on this technology is considered for review by the guidance executive 3 years after publication of the guidance. NICE welcomes comment on this proposed date. The guidance executive will decide whether the technology should be reviewed based on information gathered by NICE, and in consultation with consultees and commentators.

Lindsay Smith
Vice-Chair, appraisal committee
December 2016

7 Appraisal committee members and NICE project team

Appraisal committee members

The 4 technology appraisal committees are standing advisory committees of NICE. This topic was considered by committee D.

National Institute for Health and Care Excellence

Page 35 of 36

Appraisal consultation document – Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs

Committee members are asked to declare any interests in the technology to be

appraised. If it is considered there is a conflict of interest, the member is excluded

from participating further in that appraisal.

The minutes of each appraisal committee meeting, which include the names of the

members who attended and their declarations of interests, are posted on the NICE

website.

Committee members are asked to declare any interests in the technology to be

appraised. If it is considered there is a conflict of interest, the member is excluded

from participating further in that appraisal.

NICE project team

Each technology appraisal is assigned to a team consisting of 1 or more health

technology analysts (who act as technical leads for the appraisal), a technical

adviser and a project manager.

Aminata Thiam

Technical Lead

Fay McCracken

Technical Adviser

Kate Moore

Project Manager

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