

PRIOR AUTHORIZATION POLICY

POLICY: Inflammatory Conditions – Tocilizumab Subcutaneous Products Prior Authorization Policy

- Actemra® (tocilizumab subcutaneous injection – Genentech/Roche)
- Tyenne® (tocilizumab-aazg subcutaneous injection – Fresenius Kabi)

REVIEW DATE: 04/24/2024; selected revision 06/26/2024

OVERVIEW

Tocilizumab subcutaneous injection, an interleukin-6 (IL-6) receptor inhibitor, is approved for the following uses:¹

- **Giant cell arteritis** in adults.
- **Interstitial lung disease associated with systemic sclerosis**, to slow the rate of decline in pulmonary function in adults.
- **Polyarticular juvenile idiopathic arthritis**, for the treatment of active disease in patients ≥ 2 years of age.
- **Rheumatoid arthritis**, for treatment of adults with moderate to severe active disease who have had an inadequate response to one or more disease-modifying antirheumatic drugs (DMARDs).
- **Systemic juvenile idiopathic arthritis**, for the treatment of active disease in patients ≥ 2 years of age.

Guidelines/Clinical Efficacy

IL-6 blockers are mentioned in multiple guidelines for treatment of inflammatory conditions. Clinical data also support use of tocilizumab in other conditions.

- **Giant Cell Arteritis and Polymyalgia Rheumatica:** Recommendations from the European League Against Rheumatism (EULAR) [2023] state the diagnosis of giant cell arteritis may be made without biopsy if there is a high suspicion of giant cell arteritis and a positive imaging test.⁴ In the pivotal trial evaluating tocilizumab subcutaneous for giant cell arteritis (n = 251), patients were treated with corticosteroids in an open-label fashion (20 mg to 60 mg/day) during the screening period prior to treatment with tocilizumab subcutaneous.^{2,3} Sustained remission at Week 52 was achieved in 56% of patients who received tocilizumab subcutaneous every week + 26-week prednisone taper and 53% of patients who received tocilizumab every other week + 26-week prednisone taper vs. 14% of patients in the 26-week prednisone taper and 18% of patients in the 52-week prednisone taper.
- **Interstitial Lung Disease Associated with Systemic Sclerosis:** EULAR guidelines for systemic sclerosis (2016) do not address tocilizumab.¹⁴ In the pivotal trial evaluating tocilizumab subcutaneous for systemic sclerosis-associated interstitial lung disease, patients were required to have a percentage of predicted forced vital capacity (FVC% predicted) $> 55\%$.¹⁵ Among patients with interstitial lung disease confirmed on high-resolution computed tomography scan (n = 136), the change from baseline in FVC% predicted at Week 48 was significantly improved in the group taking tocilizumab (0.07 vs. -6.40 with placebo).
- **Polyarticular Juvenile Idiopathic Arthritis:** The American College of Rheumatology (ACR)/Arthritis Foundation guidelines for the treatment of Juvenile Idiopathic Arthritis (2019) are specific to juvenile non-systemic polyarthritis, sacroiliitis, and enthesitis.⁸ For patients without risk factors, initial therapy with a DMARD is conditionally recommended over a biologic (including tocilizumab). Biologics (e.g., tocilizumab) are conditionally recommended as initial treatment when combined with a DMARD over biologic monotherapy.

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- **Rheumatoid Arthritis:** Guidelines from the ACR for the treatment of rheumatoid arthritis (2015) have tumor necrosis factor (TNF) inhibitors and non-TNF biologics (such as tocilizumab) equally positioned as a recommended therapy following a trial of a conventional synthetic DMARD (e.g., methotrexate, leflunomide, hydroxychloroquine, sulfasalazine).¹⁰
- **Systemic Juvenile Idiopathic Arthritis:** Guidelines for the treatment of JIA from the ACR (2021) address systemic juvenile idiopathic arthritis (SJIA).⁹ A brief trial of NSAIDs and/or an interleukin (IL)-1 or IL-6 inhibitor are recommended as initial monotherapy for patients with SJIA without macrophage activation syndrome. In a patient who presents with macrophage activation syndrome, an IL-1 or IL-6 blocker and/or systemic glucocorticoids are recommended.

POLICY STATEMENT

Prior Authorization is recommended for prescription benefit coverage of tocilizumab subcutaneous. All approvals are provided for the approval duration noted below. In cases where the approval is authorized in months, 1 month is equal to 30 days. Because of the specialized skills required for evaluation and diagnosis of a patient treated with tocilizumab subcutaneous as well as the monitoring required for adverse events and long-term efficacy, initial approval requires tocilizumab subcutaneous to be prescribed by or in consultation with a physician who specializes in the condition being treated.

All reviews for use of tocilizumab subcutaneous for COVID-19 and/or cytokine release syndrome associated with COVID-19 will be forwarded to the Medical Director.

Automation: None.

RECOMMENDED AUTHORIZATION CRITERIA

Coverage of Tocilizumab subcutaneous is recommended in those who meet one of the following criteria:

FDA-Approved Indications

1. **Giant Cell Arteritis.** Approve for the duration noted if the patient meets ONE of the following (A or B):
 - A) **Initial Therapy.** Approve for 6 months if the patient meets BOTH of the following (i and ii):
 - i. Patient has tried one systemic corticosteroid; AND
Note: An example of a systemic corticosteroid is prednisone.
 - ii. The medication is prescribed by or in consultation with a rheumatologist.
 - B) **Patient is Currently Receiving a Tocilizumab Subcutaneous or Intravenous Product.** Approve for 1 year if the patient meets BOTH of the following (i and ii):
 - i. Patient has been established on therapy for at least 6 months; AND
Note: A patient who has received < 6 months of therapy or who is restarting therapy is reviewed under criterion A (Initial Therapy).
 - ii. Patient meets at least ONE of the following (a or b):
 - a) When assessed by at least one objective measure, patient experienced a beneficial clinical response from baseline (prior to initiating a tocilizumab product); OR
Note: Examples of objective measures are serum markers (e.g., C-reactive protein, erythrocyte sedimentation rate), resolution of fever, and/or reduced dosage of corticosteroids.
 - b) Compared with baseline (prior to initiating a tocilizumab product), patient experienced an improvement in at least one symptom, such as decreased headache, scalp or jaw pain, decreased fatigue, and/or improved vision.

- 2. Interstitial Lung Disease Associated with Systemic Sclerosis.** Approve for 1 year if the patient meets ONE of the following (A or B):
- A) Initial Therapy.** Approve if the patient meets ALL of the following (i, ii, iii, iv, and v):
- i.** Patient is ≥ 18 years of age; AND
 - ii.** Patient has elevated acute phase reactants, defined as at least ONE of the following (a, b, or c):
 - a)** C-reactive protein (CRP) ≥ 6 mg/mL; OR
 - b)** Erythrocyte sedimentation rate (ESR) ≥ 28 mm/h; OR
 - c)** Platelet count $\geq 330 \times 10^9/L$; AND
 - iii.** Forced vital capacity (FVC) is $> 55\%$ of the predicted value; AND
 - iv.** Diagnosis is confirmed by high-resolution computed tomography; AND
 - v.** The medication is prescribed by or in consultation with a pulmonologist or a rheumatologist.
- B) Patient is Currently Receiving a Tocilizumab Subcutaneous or Intravenous Product.** Approve if the patient meets ALL of the following (i, ii, and iii):
- i.** Patient is ≥ 18 years of age; AND
 - ii.** Patient has experienced a beneficial response to therapy over the previous 1 year while receiving a tocilizumab product; AND
Note: For a patient who has received less than 1 year of therapy, response to therapy is from baseline prior to initiating a tocilizumab product. Examples of a beneficial response include a reduction in the anticipated decline in forced vital capacity, improvement in 6-minute walk distance, and/or reduction in the number or severity of disease-related exacerbations.
 - iii.** The medication is prescribed by or in consultation with a pulmonologist or a rheumatologist.
- 3. Polyarticular Juvenile Idiopathic Arthritis.** Approve for the duration noted if the patient meets ONE of the following (A or B):
- A) Initial Therapy.** Approve for 6 months if the patient meets BOTH of the following (i and ii):
- i.** Patient meets ONE of the following (a, b, c, or d):
 - a)** Patient has tried one other systemic therapy for this condition; OR
Note: Examples of other systemic therapies include methotrexate, sulfasalazine, leflunomide, or a nonsteroidal anti-inflammatory drug (NSAID). A previous trial of one biologic other than the requested drug also counts as a trial of one systemic therapy for Juvenile Idiopathic Arthritis. A biosimilar of Actemra does not count. Refer to [Appendix](#) for examples of biologics used for Juvenile Idiopathic Arthritis.
 - b)** Patient will be starting on tocilizumab subcutaneous concurrently with methotrexate, sulfasalazine, or leflunomide; OR
 - c)** Patient has an absolute contraindication to methotrexate, sulfasalazine, or leflunomide; OR
Note: Examples of absolute contraindications to methotrexate include pregnancy, breastfeeding, alcoholic liver disease, immunodeficiency syndrome, and blood dyscrasias; OR
 - d)** Patient has aggressive disease, as determined by the prescriber; AND
 - ii.** The medication is prescribed by or in consultation with a rheumatologist.
- B) Patient is Currently Receiving a Tocilizumab Subcutaneous or Intravenous Product.** Approve for 1 year if the patient meets BOTH of the following (i and ii):
- i.** Patient has been established on therapy for at least 6 months; AND
Note: A patient who has received < 6 months of therapy or who is restarting therapy with this medication is reviewed under criterion A (Initial Therapy).
 - ii.** Patient meets at least ONE of the following (a or b):
 - a)** When assessed by at least one objective measure, patient experienced a beneficial clinical response from baseline (prior to initiating a tocilizumab product); OR

Note: Examples of objective measures include Physician Global Assessment (MD global), Parent/Patient Global Assessment of Overall Well-Being (PGA), Parent/Patient Global Assessment of Disease Activity (PDA), Juvenile Arthritis Disease Activity Score (JDAS), Clinical Juvenile Arthritis Disease Activity Score (cJDAS), Juvenile Spondyloarthritis Disease Activity Index (JSpADA), serum markers (e.g., C-reactive protein, erythrocyte sedimentation rate), and/or reduced dosage of corticosteroids.

- b) Compared with baseline (prior to initiating a tocilizumab product), patient experienced an improvement in at least one symptom, such as improvement in limitation of motion, less joint pain or tenderness, decreased duration of morning stiffness or fatigue, improved function or activities of daily living.

4. Rheumatoid Arthritis. Approve for the duration noted if the patient meets ONE of the following (A or B):

A) Initial Therapy. Approve for 6 months if the patient meets BOTH of the following (i and ii):

- i. Patient has tried one conventional synthetic disease-modifying antirheumatic drug (DMARD) for at least 3 months; AND

Note: Examples of conventional DMARDs include methotrexate (oral or injectable), leflunomide, hydroxychloroquine, and sulfasalazine. An exception to the requirement for a trial of one conventional synthetic DMARD can be made if the patient has already had a 3-month trial with at least one biologic other than a tocilizumab product. A biosimilar of Actemra does not count. Refer to [Appendix](#) for examples of biologics used for rheumatoid arthritis. A patient who has already tried a biologic for rheumatoid arthritis is not required to “step back” and try a conventional synthetic DMARD.

- ii. The medication is prescribed by or in consultation with a rheumatologist.

B) Patient is Currently Receiving a Tocilizumab Subcutaneous or Intravenous Product. Approve for 1 year if the patient meets BOTH of the following (i and ii):

- i. Patient has been established on therapy for at least 6 months; AND

Note: A patient who has received < 6 months of therapy or who is restarting therapy is reviewed under criterion A (Initial Therapy).

- ii. Patient meets at least ONE of the following (a or b):

- a) Patient experienced a beneficial clinical response when assessed by at least one objective measure; OR

Note: Examples of standardized and validated measures of disease activity include Clinical Disease Activity Index (CDAI), Disease Activity Score (DAS) 28 using erythrocyte sedimentation rate (ESR) or C-reactive protein (CRP), Patient Activity Scale (PAS)-II, Rapid Assessment of Patient Index Data 3 (RAPID-3), and/or Simplified Disease Activity Index (SDAI).

- b) Patient experienced an improvement in at least one symptom, such as decreased joint pain, morning stiffness, or fatigue; improved function or activities of daily living; decreased soft tissue swelling in joints or tendon sheaths.

5. Systemic Juvenile Idiopathic Arthritis. Approve for the duration noted if the patient meets ONE of the following (A or B):

A) Initial Therapy. Approve for 6 months if the patient meets BOTH of the following (i and ii):

- i. Patient has tried one other systemic therapy for this condition; AND

Note: Examples of other systemic therapies include a corticosteroid (oral, intravenous), a conventional synthetic disease-modifying antirheumatic drug (DMARD) [e.g., methotrexate, leflunomide, sulfasalazine], a 1-month trial of a nonsteroidal anti-inflammatory drug (NSAID), Kineret (anakinra subcutaneous injection), or Ilaris (canakinumab subcutaneous injection). A biosimilar of Actemra does not count.

- ii. The medication is prescribed by or in consultation with a rheumatologist.

- B) Patient is Currently Receiving a Tocilizumab Subcutaneous or Intravenous Product.** Approve for 1 year if the patient meets BOTH of the following (i and ii):
- i.** Patient has been established on therapy for at least 6 months; AND
Note: A patient who has received < 6 months of therapy or who is restarting therapy with this medication is reviewed under criterion A (Initial Therapy).
 - ii.** Patient meets at least ONE of the following (a or b):
 - a)** When assessed by at least one objective measure, patient experienced a beneficial clinical response from baseline (prior to initiating the requested drug); OR
Note: Examples of objective measures include resolution of fever, improvement in rash or skin manifestations, clinically significant improvement or normalization of serum markers (e.g., C-reactive protein, erythrocyte sedimentation rate), and/or reduced dosage of corticosteroids.
 - b)** Compared with baseline (prior to initiating the requested drug), patient experienced an improvement in at least one symptom, such as less joint pain/tenderness, stiffness, or swelling; decreased fatigue; improved function or activities of daily living.

Other Uses with Supportive Evidence

- 6. Polymyalgia Rheumatica.** Approve for the duration noted if the patient meets ONE of the following (A or B):
- A) Initial Therapy.** Approve for 6 months if the patient meets BOTH of the following (i and ii):
- i.** Patient has tried one systemic corticosteroid; AND
Note: An example of a systemic corticosteroid is prednisone.
 - ii.** The medication is prescribed by or in consultation with a rheumatologist.
- B) Patient is Currently Receiving a Tocilizumab Subcutaneous or Intravenous Product.** Approve for 1 year if the patient meets BOTH of the following (i and ii):
- i.** Patient has been established on therapy for at least 6 months; AND
Note: A patient who has received < 6 months of therapy or who is restarting therapy is reviewed under criterion A (Initial Therapy).
 - ii.** Patient meets at least ONE of the following (a or b):
 - a)** When assessed by at least one objective measure, patient experienced a beneficial clinical response from baseline (prior to initiating a tocilizumab product); OR
Note: Examples of objective measures are serum markers (e.g., C-reactive protein, erythrocyte sedimentation rate), resolution of fever, and/or reduced dosage of corticosteroids.
 - b)** Compared with baseline (prior to initiating a tocilizumab product), patient experienced an improvement in at least one symptom, such as decreased shoulder, neck, upper arm, hip, or thigh pain or stiffness; improved range of motion; and/or decreased fatigue.

CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of Tocilizumab subcutaneous is not recommended in the following situations:

- 1. Concurrent use with a Biologic or with a Targeted Synthetic Disease-Modifying Antirheumatic Drug (DMARD).** Data that evaluate concomitant use of tocilizumab subcutaneous with another biologic or with a targeted synthetic DMARD for an inflammatory condition (see Appendix for examples) are lacking.^{1,11} Combination therapy with biologics and/or biologics + targeted synthetic DMARDs has a potential for a higher rate of adverse effects and lacks controlled trial data in support of additive efficacy.¹² Note: This does NOT exclude the use of conventional synthetic DMARDs (e.g.,

methotrexate, leflunomide, hydroxychloroquine, and sulfasalazine) in combination with tocilizumab subcutaneous.

2. **COVID-19 (Coronavirus Disease 2019).** Forward all requests to the Medical Director. Only tocilizumab intravenous is indicated for treatment of COVID-19 in hospitalized adults who are receiving systemic corticosteroids and require supplemental oxygen, non-invasive or invasive mechanical ventilation, or extracorporeal membrane oxygenation.

Note: This includes requests for cytokine release syndrome associated with COVID-19.

2. **Crohn’s Disease.** In a 12-week pilot study conducted in Japan, 36 adults with active Crohn’s disease (Crohn’s Disease Activity Index [CDAI] \geq 150 and increased C-reactive protein [CRP]) were randomized in a double-blind fashion to intravenous tocilizumab 8 mg/kg every 2 weeks, or alternating infusions of tocilizumab 8 mg/kg every 4 weeks and placebo (i.e., alternating with placebo every 2 weeks), or to placebo every 2 weeks.¹³ At baseline, the mean CDAI ranged from 287 to 306. Patients had been treated with corticosteroids, mesalamine-type drugs, metronidazole, or elemental diet. Six patients in the placebo group, four on tocilizumab every 4 weeks, and one on tocilizumab every 2 weeks dropped out. The mean reduction in the CDAI score in the tocilizumab 8 mg/kg every 2 week group was 88 points – from (mean) 306 to 218. Further studies are needed.
3. Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

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APPENDIX

* Not an all-inclusive list of indications (e.g., oncology indications and rare inflammatory conditions are not listed). Refer to the prescribing information for the respective agent for FDA-approved indications; SC – Subcutaneous; TNF – Tumor necrosis factor; AS – Ankylosing spondylitis; CD – Crohn’s disease; JIA – Juvenile idiopathic arthritis; PsO – Plaque psoriasis; PsA – Psoriatic arthritis; RA – Rheumatoid arthritis; UC – Ulcerative colitis; nr-axSpA – Non-radiographic axial spondyloarthritis; IV – Intravenous, PJIA – Polyarticular juvenile idiopathic arthritis; IL – Interleukin; SJIA – Systemic juvenile idiopathic arthritis; PMR – Polymyalgia rheumatic; ^ Off-label use of Kineret in JIA supported in guidelines; ERA – Enthesitis-related arthritis; DMARD – Disease-modifying antirheumatic drug; PDE4 – Phosphodiesterase 4; JAK – Janus kinase; AD – Atopic dermatitis; TYK2 – Tyrosine kinase 2.