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### 5.70.050

| Section:<br>Subsection: | Prescription<br>Analgesics | Drugs<br>and Anesthetics | Effective Date:<br>Original Policy Date: | April 1, 2023<br>November 15, 2013 |
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| Last Review Da          | ate:                       | March 10, 2023           |  |                                    |
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### Kineret

Description

Kineret (anakinra)

#### Background

Kineret is in a class of medications called interleukin-1 (IL-1) receptor antagonists. This means that Kineret works by blocking the activity of interleukin, a protein in the body that can induce inflammatory and immunological responses. Interleukin-1 (IL-1) is produced by the body as part of an inflammatory reaction in diseases such as Rheumatoid Arthritis (RA), Cryopyrin-Associated Periodic Syndromes (CAPS)- Neonatal-Onset Multisystem Inflammatory Disease (NOMID) and Deficiency of Interleukin-1 Receptor Antagonist (DIRA). Excess IL-1 can lead to pain, swelling, stiffness of the joints, and systemic inflammation with skin and bone involvement. Kineret can help manage the excess levels of IL-1 in the body by blocking its activity (1).

#### **Regulatory Status**

FDA-approved indications: Kineret is an interleukin-1 receptor antagonist indicated for: (1)

<u>Rheumatoid Arthritis (RA)</u> - Reduction in signs and symptoms and slowing the progression of structural damage in moderately to severely active rheumatoid arthritis, in patients 18 years of age or older who have failed 1 or more disease modifying antirheumatic drugs (DMARDs).

<u>Cryopyrin-Associated Periodic Syndromes (CAPS)</u> - Treatment of Neonatal-Onset Multisystem Inflammatory Disease (NOMID).

<u>Deficiency of Interleukin-1 Receptor Antagonist (DIRA)</u> – Treatment of Deficiency of Interleukin-1 Receptor Antagonist (DIRA).

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#### Off-Label Uses: (2-6)

Kineret is also used off label for the following indications:

- Systemic juvenile idiopathic arthritis (sJIA)
- Adult-onset Still's disease
- Gout and pseudogout (calcium pyrophosphate deposition)
- CAR T-Cell Related Toxicities

Treatment should not be initiated in patients with an active infection and Kineret should be discontinued in patients with RA if a serious infection develops. Patients with NOMID should be assessed for the risk of a flare if Kineret therapy is discontinued against continuing treatment when an infection occurs. Concurrent use with tumor necrosis factor (TNF) blocking agents is not recommended. Hypersensitivity reactions, including anaphylactic reactions and angioedema, have been reported. Live vaccines should not be given concurrently with Kineret and neutrophil counts should be assessed prior to initiation of and during therapy (1).

Safety and efficacy of Kineret in pediatric patients for uses other than neonatal-onset multisystem inflammatory disease (NOMID) and deficiency of interleukin-1 receptor antagonist (DIRA) have not been established. Kineret is not recommended for pediatric use in juvenile rheumatoid arthritis (1).

#### **Related policies**

#### Policy

This policy statement applies to clinical review performed for pre-service (Prior Approval, Precertification, Advanced Benefit Determination, etc.) and/or post-service claims.

Kineret may be considered **medically necessary** in patients with rheumatoid arthritis (RA); Cryopyrin-Associated Periodic Syndrome (CAPS) - Neonatal-Onset Multisystem Inflammatory Disease (NOMID); deficiency of Interleukin-1 Receptor Antagonist (DIRA); systemic juvenile idiopathic arthritis (sJIA); adult-onset Still's disease; gout and pseudogout; and CAR T Cell-Related Toxicities; and if the conditions indicated below are met.

Kineret may be considered **investigational** in patients that do not meet the criteria below.

### **Prior-Approval Requirements**

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#### Diagnoses

Patient must have **ONE** of the following:

- 1. Rheumatoid Arthritis (RA)
  - a. 18 years of age or older
  - b. Moderate to severely active
  - c. Inadequate treatment response, intolerance, or contraindication to a 3month trial of at least **ONE** conventional disease-modifying anti-rheumatic drugs (DMARDs) (see Appendix 2)
  - d. Prescriber will be dosing the patient within the FDA labeled maintenance dose of 100 mg per day
  - e. Patient **MUST** have tried the preferred product(s) (see Appendix 3) if adjudicated through the pharmacy benefit unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)
- 2. Cryopyrin-Associated Periodic Syndrome (CAPS)
  - a. Neonatal-Onset Multisystem Inflammatory Disease (NOMID)
  - b. Prescriber will not exceed the FDA labeled maintenance dose of 8 mg/kg/day
- 3. Deficiency of Interleukin-1 Receptor Antagonist (DIRA)
  - a. Prescriber will not exceed the FDA labeled maintenance dose of 8 mg/kg/day
- 4. Systemic juvenile idiopathic arthritis (sJIA)
- 5. Adult-onset Still's disease
- 6. Gout and pseudogout (calcium pyrophosphate deposition)
- 7. CAR T Cell-Related Toxicities

**AND ALL** of the following:

- 1. Result for latent TB infection is negative **OR** result was positive for latent TB and patient completed treatment (or is receiving treatment) for latent TB
- 2. NO active bacterial, invasive fungal, viral, and other opportunistic infections
- 3. Patient is not at risk for HBV infection **OR** patient is at risk for HBV infection and HBV infection has been ruled out or treatment for HBV infection has been initiated.
- 4. **NOT** to be used in combination with any other biologic DMARD or targeted synthetic DMARD (see Appendix 2)
- 5. NOT given concurrently with live vaccines

### Prior – Approval Renewal Requirements

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#### Diagnoses

Patient must have **ONE** of the following:

- 1. Rheumatoid Arthritis (RA)
  - a. 18 years of age or older
  - b. Prescriber will be dosing the patient within the FDA labeled maintenance dose of 100 mg per day
  - c. Patient **MUST** have tried the preferred product(s) (see Appendix 3) if adjudicated through the pharmacy benefit unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)
- 2. Cryopyrin-Associated Periodic Syndrome (CAPS)
  - a. Neonatal-Onset Multisystem Inflammatory Disease (NOMID)
  - b. Prescriber will not exceed the FDA labeled maintenance dose of 8 mg/kg/day
- 3. Deficiency of Interleukin-1 Receptor Antagonist (DIRA)
  - a. Prescriber will not exceed the FDA labeled maintenance dose of 8 mg/kg/day
- 4. Systemic juvenile idiopathic arthritis (sJIA)
- 5. Adult-onset Still's disease
- 6. Gout and pseudogout (calcium pyrophosphate deposition)
- 7. CAR T Cell-Related Toxicities

AND ALL of the following:

- 1. Condition has improved or stabilized with Kineret therapy
- 2. Absence of active infection (including tuberculosis and hepatitis B virus (HBV))
- 3. **NOT** to be used in combination with any other biologic DMARD or targeted synthetic DMARD (see Appendix 2)
- 4. **NOT** given concurrently with live vaccines

Policy Guidelines

#### **Pre - PA Allowance**

None

**Prior - Approval Limits** 

Quantity

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| Diagnosis   | Strength | Quantity                |
|---|----------|-------------------------|
| Rheumatoid Arthritis                                      | 100 mg   | 84 syringes per 84 days |
| Cryopyrin-Associated Periodic<br>Syndrome (CAPS)          | 100 mg   | 8 mg/kg per day         |
| Deficiency of Interleukin-1 Receptor<br>Antagonist (DIRA) | 100 mg   | 8 mg/kg per day         |
| Systemic juvenile idiopathic arthritis (sJIA)             | 100 mg   |                         |
| Adult-onset Still's disease                               | 100 mg   | No limit                |
| Gout and pseudogout (calcium<br>pyrophosphate deposition) | 100 mg   |                         |
| CAR T Cell-Related Toxicities                             | 100 mg   |                         |

#### **Duration** 12 months

### Prior – Approval Renewal Limits

#### Quantity

| Diagnosis   | Strength | Quantity                |
|---|----------|-------------------------|
| Rheumatoid Arthritis                                      | 100 mg   | 84 syringes per 84 days |
| Cryopyrin-Associated Periodic<br>Syndrome (CAPS)          | 100 mg   | 8 mg/kg per day         |
| Deficiency of Interleukin-1 Receptor<br>Antagonist (DIRA) | 100 mg   | 8 mg/kg per day         |
| Systemic juvenile idiopathic arthritis (sJIA)             | 100 mg   |                         |
| Adult-onset Still's disease                               | 100 mg   | No limit                |
| Gout and pseudogout (calcium<br>pyrophosphate deposition) | 100 mg   |                         |
| CAR T Cell-Related Toxicities                             | 100 mg   |                         |

#### Duration 18 months

#### Rationale

#### Summary

Kineret is FDA-approved for the treatment of patients with Cryopyrin-Associated Periodic Syndrome (CAPS) - Neonatal-Onset Multisystem Inflammatory Disease (NOMID) and Deficiency of Interleukin-1 Receptor Antagonist (DIRA), and adult patients for the treatment of moderate to severely active rheumatoid arthritis (RA) who have had inadequate response or intolerance to

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conventional therapy. Kineret is also used off-label for systemic juvenile idiopathic arthritis (sJIA), adult-onset Still's disease, gout and pseudogout, and CAR T-Cell Related Toxicities. Kineret carries warnings due to increased risk of serious infections due to immunosuppression and hypersensitivity reactions (1-6).

Prior authorization is required to ensure the safe, clinically appropriate, and cost-effective use of Kineret while maintaining optimal therapeutic outcomes.

#### References

- 1. Kineret [package insert]. Stockholm, Sweden: Swedish Orphan Biovitrum AB; December 2020.
- Quartier P, Allantaz F, Cimaz R, et al. A multicentre, randomized, double-blind, placebocontrolled trial with the interleukin-1 receptor antagonist anakinra in patients with systemic-onset juvenile idiopathic arthritis (ANAJIS trial). *Ann Rheum Dis.* 2011;70:747-754.
- 3. Efthimiou P, Paik P K, Bielory L. Diagnosis and Management of Adult Onset Still's Disease. *Ann Rheum Dis.* 2006 May;65(5):564-72. Epub 2005 Oct 11.
- 4. Richette P, Doherty M, Pascual E, et al. 2016 updated EULAR evidence-based recommendations for the management of gout. *Ann Rheum Dis.* 2017;76:29–42.
- 5. Zhang W, Doherty M, Pascual E, et al. EULAR recommendations for calcium pyrophosphate deposition. Part II: Management. *Ann Rheum Dis.* 2011;70:571–575.
- 6. NCCN Drugs & Biologics Compendium® Anakinra 2023. National Comprehensive Cancer Network, Inc. Accessed on February 6, 2023.

#### Policy History

| Date           | Action   |
|----------------|--|
| October 2013   | Addition to PA   |
| December 2013  | Annual editorial review by the PMPC                              |
| September 2014 | Annual editorial review and renewal limit to 18 months           |
| December 2015  | Annual editorial review and reference update, Remove moderate to |
|                | severely active from renewal requirement                         |
| September 2016 | Annual editorial review  |
|                | Addition of not given concurrently with live vaccines per SME    |
|                | Policy number change from 5.18.02 to 5.70.50                     |
| December 2016  | Annual review and reference update                               |
| March 2017     | Annual review  |

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| December 2017  | Annual review   |
|----------------|---|
| March 2017     | Annual editorial review   |
| June 2018      | Addition of DMARD Appendix and dosing limit requirements<br>Changed the inadequate response, intolerance, or contraindication to at<br>least one conventional disease-modifying antirheumatic drugs (DMARDs)<br>to inadequate response, intolerance, or contraindication to a 3-month trial<br>of at least ONE conventional disease-modifying anti-rheumatic drugs<br>(DMARDs)<br>Updated Appendix - List of DMARDs and added Appendix - Examples of<br>Contraindications to Methotrexate<br>Addition of dosing requirements in renewal section |
| September 2018 | Annual editorial review and reference update  |
| March 2019     | Annual review   |
| December 2019  | Annual review. Addition of requirement to trial preferred product   |
| March 2020     | Annual review   |
| December 2020  | Added Appendix 3 with a list of preferred medications based on diagnosis and plan. Added PA quantity limit for RA   |
| January 2021   | Addition of Indication: Deficiency of Interleukin-1 Receptor Antagonist (DIRA). Updated quantity limit table  |
| March 2021     | Annual review. Clarification added to the t/f, intolerance, C/I to preferred products requirement indicating that it only applies to claims adjudicated through the pharmacy benefit. Appendix 2 updated.   |
| June 2021      | Annual review   |
| June 2022      | Annual editorial review   |
| September 2022 | Annual review   |
| February 2023  | Per FEP, addition of off-label indications: systemic juvenile idiopathic arthritis (sJIA), adult-onset Still's disease, gout and pseudogout, and CAR T-Cell Related Toxicities  |
| March 2023     | Annual review   |
| Keywords       |   |

This policy was approved by the FEP® Pharmacy and Medical Policy Committee on March 10, 2023 and is effective on April 1, 2023.

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### Appendix 1 – Examples of Contraindications to Methotrexate

| Contraindications to Methotrexate |   |  |  |
|-----------------------------------|---|--|--|
| 1.                                | Alcoholism, alcoholic liver disease or other chronic liver disease        |  |  |
| 2.                                | Breastfeeding   |  |  |
| 3.                                | Blood dyscrasias (e.g., thrombocytopenia, leukopenia, significant anemia) |  |  |
| 4.                                | Elevated liver transaminases  |  |  |
| 5.                                | History of intolerance or adverse event                                   |  |  |
| 6.                                | Hypersensitivity  |  |  |
| 7.                                | Interstitial pneumonitis or clinically significant pulmonary fibrosis     |  |  |
| 8.                                | Myelodysplasia  |  |  |
| 9.                                | Pregnancy or planning pregnancy (male or female)                          |  |  |
| 10                                | . Renal impairment  |  |  |
| 11                                | . Significant drug interaction  |  |  |

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### Appendix 2 - List of DMARDs

#### Conventional disease-modifying antirheumatic drugs (DMARDs)

| Generic Name       | Brand Name                  |
|--------------------|-----------------------------|
| azathioprine       | Azasan, Imuran              |
| cyclophosphamide   | Cytoxan                     |
| cyclosporine       | Neoral, Gengraf, Sandimmune |
| hydroxychloroquine | Plaquenil                   |
| leflunomide        | Arava                       |
| methotrexate       | Rheumatrex, Trexall         |
| mycophenolate      | Cellcept                    |
| sulfasalazine      | Azulfidine, Sulfazine       |

| Biological disease-modify | ying | antirheumatic | drugs | (DMARDs) | ) |
|---------------------------|------|---------------|-------|----------|---|
|                           |      |               |       |          |   |

| Generic Name       | Brand Name                          |
|--------------------|-------------------------------------|
| abatacept          | Orencia                             |
| adalimumab         | Humira                              |
| anakinra           | Kineret                             |
| brodalumab         | Siliq                               |
| certolizumab       | Cimzia                              |
| etanercept         | Enbrel                              |
| golimumab          | Simponi/Simponi Aria                |
| guselkumab         | Tremfya                             |
| infliximab         | Remicade/Avsola/Inflectra/Renflexis |
| ixekizumab         | Taltz                               |
| risankizumab-rzaa  | Skyrizi                             |
| rituximab          | Rituxan/Riabni/Ruxience/Truxima     |
| sarilumab          | Kevzara                             |
| secukinumab        | Cosentyx                            |
| spesolimab-sbzo    | Spevigo                             |
| tildrakizumab-asmn | Ilumya                              |
| tocilizumab        | Actemra                             |
| ustekinumab        | Stelara                             |
| vedolizumab        | Entyvio                             |

#### Targeted synthetic disease-modifying antirheumatic drugs (DMARDs)

| Brand Name |
|------------|
| Otezla     |
| Olumiant   |
| Sotyktu    |
|            |

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| tofacitinib | Xeljanz/XR |
|-------------|------------|
| upadactinib | Rinvoq     |

### Appendix 3 - List of Preferred Products

| Diagnosis                 | Standard Option/Basic<br>Option Preferred Products   | Blue Focus Preferred<br>Products                            |
|---------------------------|--|---|
| Rheumatoid Arthritis (RA) | *must try TWO preferred products:<br>Actemra (SC) (must try<br>Humira first)<br>Enbrel<br>Humira<br>Rinvoq<br>Xeljanz/XR | *must try <b>ONE</b> preferred product:<br>Enbrel<br>Humira |