

UnitedHealthcare® Commercial Medical Benefit Drug Policy

Saphnelo® (Anifrolumab-Fnia)

Policy Number: 2024D0109G Effective Date: July 1, 2024

Instructions for Use

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Related Commercial Policy

Provider Administered Drugs - Site of Care

Community Plan Policy

Saphnelo® (Anifrolumab-Fnia)

Coverage Rationale

See <u>Benefit Considerations</u>

Saphnelo (anifrolumab-fnia) is proven for the treatment of moderate to severe systemic lupus erythematosus (SLE) when all of the following criteria are met:

- For **initial therapy**, **all** of the following:
 - Diagnosis of moderate to severe systemic lupus erythematosus, without severe active central nervous system lupus or severe active lupus nephritis; and
 - o Currently receiving at least **one** standard of care treatment for active systemic lupus erythematosus (e.g., antimalarials, corticosteroids, or immunosuppressants) that is not a biologic; and
 - Patient is not receiving Saphnelo in combination with a biologic agent or Benlysta; and
 - o Saphnelo is dosed according to US Food and Drug Administration labeled dosing for SLE; and
 - Initial authorization is for no more than 12 months.
- For continuation of therapy, all of the following:
 - o Patient has previously received Saphnelo injection for intravenous infusion; and
 - Documentation of positive clinical response; and
 - Patient is without severe active central nervous system lupus or severe active lupus nephritis; and
 - Currently receiving at least **one** standard of care treatment for active systemic lupus erythematosus (e.g., antimalarials, corticosteroids, or immunosuppressants) that is not a biologic; and
 - Patient is not receiving Saphnelo in combination with a biologic agent or Benlysta; and
 - Saphnelo is dosed according to US Food and Drug Administration labeled dosing for SLE; and
 - Authorization is for no more than 12 months

Saphnelo (anifrolumab-fnia) is medically necessary for the treatment of moderate to severe systemic lupus erythematosus (SLE) when all of the following criteria are met:

- For **initial therapy**, **all** of the following:
 - Diagnosis of moderate to severe systemic lupus erythematosus, without severe active central nervous system lupus or severe active lupus nephritis; and
 - o Currently receiving at least **one** standard of care treatment for active systemic lupus erythematosus (e.g., antimalarials, corticosteroids, or immunosuppressants) that is not a biologic; and
 - Patient has a contraindication, intolerance, or failure to Benlysta (for Medicare reviews, refer to the CMS section*): and
 - Patient is not receiving Saphnelo in combination with a biologic agent or Benlysta; and

- Saphnelo is dosed according to US Food and Drug Administration labeled dosing for SLE; and
- Prescribed by or in consultation with a rheumatologist; and
- o Initial authorization is for no more than 12 months.
- For continuation of therapy, all of the following:
 - o Patient has previously received Saphnelo injection for intravenous infusion; and
 - Documentation of positive clinical response; and
 - o Patient is without severe active central nervous system lupus or severe active lupus nephritis; and
 - Currently receiving at least **one** standard of care treatment for active systemic lupus erythematosus (e.g., antimalarials, corticosteroids, or immunosuppressants) that is not a biologic; **and**
 - o Patient is not receiving Saphnelo in combination with a biologic agent or Benlysta; and
 - Saphnelo is dosed according to US Food and Drug Administration labeled dosing for SLE; and
 - o Prescribed by or in consultation with a rheumatologist; and
 - Authorization is for no more than 12 months

Saphnelo is unproven and not medically necessary for:

- Severe active lupus nephritis
- Severe active central nervous system (CNS) lupus
- Use in combination with other biologics

Applicable Codes

HCPCS Code

The following list(s) of procedure and/or diagnosis codes is provided for reference purposes only and may not be all inclusive. Listing of a code in this policy does not imply that the service described by the code is a covered or non-covered health service. Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Guidelines may apply.

Description

ncPCS Code	Description
J0491	Injection, anifrolumab-fnia, 1 mg
Diagnosis Code	Description
M32.10	Systemic lupus erythematosus, organ or system involvement unspecified
M32.11	Endocarditis in systemic lupus erythematosus
M32.12	Pericarditis in systemic lupus erythematosus
M32.13	Lung involvement in systemic lupus erythematosus
M32.14	Glomerular disease in systemic lupus erythematosus
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus
M32.19	Other organ or system involvement in systemic lupus erythematosus
M32.8	Other forms of systemic lupus erythematosus
M32.9	Systemic lupus erythematosus, unspecified

Background

Saphnelo is a human IgG1x monoclonal antibody that binds to subunit 1 of the type I interferon receptor (IFNAR) with high specificity and affinity. This binding inhibits type I IFN signaling, thereby blocking the biologic activity of type I IFNs. Saphnelo also induces the internalization of IFNAR1, thereby reducing the levels of cell surface IFNAR1 available for receptor assembly. Blockade of receptor mediated type I IFN signaling inhibits IFN responsive gene expression as well as downstream inflammatory and immunological processes. Inhibition of type I IFN blocks plasma cell differentiation and normalizes peripheral T-cell subsets. Type I IFNs play a role in the pathogenesis of SLE. Approximately 60-80% of adult patients with active SLE express elevated levels of type I IFN inducible genes.¹

Benefit Considerations

Some Certificates of Coverage allow for coverage of experimental/investigational/unproven treatments for life-threatening illnesses when certain conditions are met. The member specific benefit plan document must be consulted to make

coverage decisions for this service. Some states mandate benefit coverage for off-label use of medications for some diagnoses or under some circumstances when certain conditions are met. Where such mandates apply, they supersede language in the benefit document or in the medical or drug policy. Benefit coverage for an otherwise unproven service for the treatment of serious rare diseases may occur when certain conditions are met. Refer to the Policy and Procedure addressing the treatment of serious rare diseases.

Clinical Evidence

Furie et al evaluated the efficacy and safety of anifrolumab, a type I interferon (IFN) receptor antagonist, in a phase IIb, randomized, double-blind, placebo-controlled study of adults with moderate-to-severe systemic lupus erythematosus (SLE). Patients (N = 305) were randomized to receive intravenous anifrolumab (300 mg or 1,000 mg) or placebo, in addition to standard therapy, every 4 weeks for 48 weeks. Randomization was stratified by SLE Disease Activity Index 2000 score (< 10 or ≥ 10), oral corticosteroid dosage (< 10 or ≥ 10 mg/day), and type I IFN gene signature test status (high or low) based on a 4-gene expression assay. The primary end point was the percentage of patients achieving an SLE Responder Index (SRI[4]) response at week 24 with sustained reduction of oral corticosteroids (< 10 mg/day and less than or equal to the dose at week 1 from week 12 through 24). Other end points (including SRI[4], British Isles Lupus Assessment Group [BILAG]-based Composite Lupus Assessment [BICLA], modified SRI[6], and major clinical response) were assessed at week 52. The primary end point was analyzed in the modified intent-to-treat (ITT) population and type I IFN-high subpopulation. The study result was considered positive if the primary end point was met in either of the 2 study populations. The Type I error rate was controlled at 0.10 (2-sided), within each of the 2 study populations for the primary end point analysis. The primary end point was met by more patients treated with anifrolumab (34.3% of 99 for 300 mg and 28.8% of 104 for 1,000 mg) than placebo (17.6% of 102) (P = 0.014 for 300 mg and P = 0.063 for 1,000 mg, versus placebo), with greater effect size in patients with a high IFN signature at baseline (13.2% in placebo-treated patients versus 36.0% [P = 0.004] and 28.2% [P = 0.029]) in patients treated with anifrolumab 300 mg and 1,000 mg, respectively. At week 52, patients treated with anifrolumab achieved greater responses in SRI(4) (40.2% versus 62.6% [P < 0.001] and 53.8% [P = 0.043] with placebo, anifrolumab 300 mg, and anifrolumab 1,000 mg, respectively), BICLA (25.7% versus 53.5% [P < 0.001] and 41.2% [P = 0.018], respectively), modified SRI(6) (28.4% versus 49.5% [P = 0.002] and 44.7% [P = 0.015], respectively), major clinical response (BILAG 2004 C or better in all organ domains from week 24 through week 52) (6.9% versus 19.2% [P = 0.012] and 17.3% [P = 0.025], respectively), and several other global and organ-specific end points. Herpes zoster was more frequent in the anifrolumab-treated patients (2.0% with placebo treatment versus 5.1% and 9.5% with anifrolumab 300 mg and 1,000 mg, respectively), as were cases reported as influenza (2.0% versus 6.1% and 7.6%, respectively), in the anifrolumab treatment groups. Incidence of serious adverse events was similar between groups (18.8% versus 16.2% and 17.1%, respectively). Researchers concluded that anifrolumab substantially reduced disease activity compared with placebo across multiple clinical end points in the patients with moderate-to-severe SLE.

Pooled data from the phase 3 TULIP-1 and TULIP-2 trials in patients with moderate to severe SLE were analyzed by Furie et al to determine anifrolumab's effect on flares, including those arising with glucocorticoid taper. TULIP-1 and TULIP-2 were randomized, placebo-controlled, 52-week trials of intravenous anifrolumab (300 mg every 4 weeks for 48 weeks). For patients receiving baseline glucocorticoid \geq 10 mg/day, attempted taper to \leq 7.5 mg/day prednisone or equivalent from Weeks 8-40 was required and defined as sustained reduction when maintained through Week 52. Flares were defined as \geq 1 new BILAG-2004 A or \geq 2 new BILAG-2004 B scores versus the previous visit. Flare assessments were compared for patients receiving anifrolumab versus placebo. Compared with placebo (N = 366), anifrolumab (N = 360) was associated with lower annualized flare rates (rate ratio 0.75, 95% confidence interval [CI] 0.60-0.95), prolonged time to first flare (hazard ratio 0.70, 95% CI 0.55-0.89), and fewer patients with \geq 1 flare (difference -9.3%, 95% CI -16.3 to -2.3), as well as flares in organ domains commonly active at baseline (musculoskeletal, mucocutaneous). Fewer BILAG-based Composite Lupus Assessment responders had \geq 1 flare with anifrolumab (21.1%, 36/171) versus placebo (30.4%, 34/112). Of patients who achieved sustained glucocorticoid reductions from \geq 10 mg/day at baseline, more remained flare free with anifrolumab (40.0%, 76/190) versus placebo (17.3%, 32/185). The authors concluded that analyses of pooled TULIP-1 and TULIP-2 data support that anifrolumab reduces flares while permitting glucocorticoid taper in patients with SLE.

Anifrolumab did not have a significant effect on the primary end point in a previous phase 3 trial. The current phase 3 trial used a secondary end point from that trial as the primary end point. Morand et al randomly assigned patients in a 1:1 ratio to receive intravenous anifrolumab (300 mg) or placebo every 4 weeks for 48 weeks. The primary end point of this trial was a response at week 52 defined with the use of the British Isles Lupus Assessment Group (BILAG)-based Composite Lupus Assessment (BICLA). A BICLA response requires reduction in any moderate-to-severe baseline disease activity and no worsening in any of nine organ systems in the BILAG index, no worsening on the Systemic Lupus Erythematosus Disease Activity Index, no increase of 0.3 points or more in the score on the Physician Global Assessment of disease activity (on a scale from 0 [no disease activity] to 3 [severe disease]), no discontinuation of the trial intervention, and no use of medications restricted by the protocol. Secondary end points included a BICLA response in patients with a high

interferon gene signature at baseline; reductions in the glucocorticoid dose, in the severity of skin disease, and in counts of swollen and tender joints; and the annualized flare rate. A total of 362 patients received the randomized intervention: 180 received anifrolumab and 182 received placebo. The percentage of patients who had a BICLA response was 47.8% in the anifrolumab group and 31.5% in the placebo group (difference, 16.3 percentage points; 95% confidence interval, 6.3 to 26.3; P = 0.001). Among patients with a high interferon gene signature, the percentage with a response was 48.0% in the anifrolumab group and 30.7% in the placebo group; among patients with a low interferon gene signature, the percentage was 46.7% and 35.5%, respectively. Secondary end points with respect to the glucocorticoid dose and the severity of skin disease, but not counts of swollen and tender joints and the annualized flare rate, also showed a significant benefit with anifrolumab. Herpes zoster and bronchitis occurred in 7.2% and 12.2% of the patients, respectively, who received anifrolumab. There was one death from pneumonia in the anifrolumab group. Researchers concluded that administration of anifrolumab resulted in a higher percentage of patients with a response (as defined by a composite end point) at week 52 than did placebo, in contrast to the findings of a similar phase 3 trial involving patients with SLE that had a different primary end point. The frequency of herpes zoster was higher with anifrolumab than with placebo.

Professional Societies

The European League Against Rheumatism (EULAR)

In 2019, EULAR published updated recommendations for the management of systemic lupus erythematosus (SLE). Their recommendations applicable to belimumab are as follows.

Treatment of SLE

Biologics:

- In patients with inadequate response to standard-of-care (combinations of hydroxychloroquine (HCQ) and glucocorticoids (GC) with or without immunosuppressive agents), defined as residual disease activity not allowing tapering of glucocorticoids and/or frequent relapses, add-on treatment with belimumab should be considered (1a/A).
- In organ-threatening disease refractory or with intolerance/contraindications to standard immunosuppressive agents, rituximab can be considered (2b/C).

Neuropsychiatric Lupus

More expansive EULAR guidelines for neuropsychiatric lupus were published in 2010.¹⁹ Treatment guidelines are below:

Treatment

SLE patients with major neuropsychiatric manifestations considered to be of inflammatory origin (optic neuritis, acute confusional state/coma, cranial or peripheral neuropathy, psychosis, and transverse myelitis/myelopathy) may benefit from immunosuppressive therapy.

Pregnancy In Lupus

Pregnancy affects mothers with SLE and their off-springs in several ways.

Mother

There is no significant difference in fertility in lupus patients. Pregnancy may increase lupus disease activity, but these flares are usually mild. Patients with lupus nephritis and anti-phospholipid antibodies are more at risk of developing pre-eclampsia and should be monitored more closely.

Fetus

SLE may affect the fetus in several ways, especially if the mother has a history of lupus nephritis, antiphospholipid, anti-Ro and/or anti-La antibodies. These conditions are associated with an increase of the risk of miscarriage, stillbirth, premature delivery, intrauterine growth restriction and fetal heart block. Prednisolone, azathioprine, hydroxychloroquine, and low dose aspirin may be used in lupus pregnancies. At present evidence suggests that mycophenolate mofetil, cyclophosphamide and methotrexate must be avoided.

Anti-Phospholipid Syndrome

In patients with SLE and anti-phospholipid antibodies, low-dose aspirin may be considered for primary prevention of thrombosis and pregnancy loss. Other risk factors for thrombosis should also be assessed. Estrogen-containing drugs increase the risk for thrombosis. In non-pregnant patients with SLE and APS—associated thrombosis, long-term anticoagulation with oral anticoagulants is effective for secondary prevention of thrombosis. In pregnant patients with SLE and anti-phospholipid syndrome combined unfractionated or LMW heparin and aspirin reduce pregnancy loss and

thrombosis and should be considered.

Lupus Nephritis

More expansive EULAR guidelines for lupus nephritis were published in 2012.²⁰ Treatment guidelines are below:

Treatment

In patients with proliferative lupus nephritis, glucocorticoids in combination with immunosuppressive agents are effective against progression to end-stage renal disease. Long-term efficacy has been demonstrated only for cyclophosphamide-based regimens, which are however, associated with considerable adverse effects. In short- and medium-term trials, mycophenolate mofetil has demonstrated at least similar efficacy compared to pulse cyclophosphamide and a more favorable toxicity profile: failure to respond by 6 months should evoke discussions for intensification of therapy. Flares following remission are not uncommon and require diligent follow-up.

End-Stage Renal Disease

Dialysis and transplantation in SLE have comparable rates for long-term patient and graft-survival as those observed in non-diabetic non-SLE patients, with transplantation being the method of choice.

U.S. Food and Drug Administration (FDA)

This section is to be used for informational purposes only. FDA approval alone is not a basis for coverage.

Saphnelo is a type I interferon (IFN) receptor antagonist indicated for the treatment of adult patients with moderate to severe systemic lupus erythematosus (SLE), who are receiving standard therapy.

Limitations of Use

- The efficacy of Saphnelo has not been evaluated in patients with severe active lupus nephritis or severe active central nervous system lupus. Use of Saphnelo is not recommended in these situations.
- Saphnelo is not recommended for use with other biologic therapies.

Centers for Medicare and Medicaid Services (CMS)

Medicare does not have a National Coverage Determination (NCD) for Saphnelo [®] (anifrolumab-fnia). Local Coverage Determinations/Articles (LCDs)/LCAs) do not exist.

In general, Medicare covers outpatient (Part B) drugs that are furnished "incident to" a physician's service provided that the drugs are not usually self-administered by the patients who take them. Refer to the Medicare Benefit Policy Manual, Chapter 15, §50 - Drugs and Biologicals. (Accessed April 9, 2024)

*Preferred therapy criteria for Medicare Advantage members, refer to the Medicare Part B Step Therapy Programs.

References

- 1. Saphnelo® [prescribing information]. Wilmington, DE: AstraZeneca Pharmaceuticals LP; December 2023.
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- 3. Furie R, Morand EF, Askanase AD, et al. Anifrolumab reduces flare rates in patients with moderate to severe systemic lupus erythematosus. Lupus. 2021;30(8):1254-1263.
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- erythematosus. Arthritis Rheum. 1997;40(9):1725.
- 8. Fanouriakis A, Kostopoulou M, Alunno A, et al. 2019 update of the EULAR recommendations for the management of systemic lupus erythematosus. Ann Rheum Dis. 2019 Jun;78(6):736-745.
- 9. Bertsias GK, Ioannidis JP, Aringer M, et al. EULAR recommendations for the management of systemic lupus erythematosus with neuropsychiatric manifestations: report of a task force of the EULAR standing committee for clinical affairs. Ann Rheum Dis. 2010 Dec;69(12):2074-82.
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Policy History/Revision Information

Date	Summary of Changes
07/01/2024	 Coverage Rationale Changed duration for initial authorization from "no more than 6 months" to "no more than 12 months"
	 Supporting Information Updated References section to reflect the most current information Archived previous policy version 2023D00109F

Instructions for Use

This Medical Benefit Drug Policy provides assistance in interpreting UnitedHealthcare standard benefit plans. When deciding coverage, the member specific benefit plan document must be referenced as the terms of the member specific benefit plan may differ from the standard plan. In the event of a conflict, the member specific benefit plan document governs. Before using this policy, please check the member specific benefit plan document and any applicable federal or state mandates. UnitedHealthcare reserves the right to modify its Policies and Guidelines as necessary. This Medical Benefit Drug Policy is provided for informational purposes. It does not constitute medical advice.

This Medical Benefit Drug Policy may also be applied to Medicare Advantage plans in certain instances. In the absence of a Medicare National Coverage Determination (NCD), Local Coverage Determination (LCD), or other Medicare coverage guidance, CMS allows a Medicare Advantage Organization (MAO) to create its own coverage determinations, using objective evidence-based rationale relying on authoritative evidence (Medicare IOM Pub. No. 100-16, Ch. 4, §90.5).

UnitedHealthcare may also use tools developed by third parties, such as the InterQual[®] criteria, to assist us in administering health benefits. UnitedHealthcare Medical Benefit Drug Policies are intended to be used in connection with the independent professional medical judgment of a qualified health care provider and do not constitute the practice of medicine or medical advice.