

## Dupixent (dupilumab)

### Disclaimer

*Clinical guidelines are developed and adopted to establish evidence-based clinical criteria for utilization management decisions. Clinical guidelines are applicable according to policy and plan type. The Plan may delegate utilization management decisions of certain services to third parties who may develop and adopt their own clinical criteria.*

*Coverage of services is subject to the terms, conditions, and limitations of a member's policy, as well as applicable state and federal law. Clinical guidelines are also subject to in-force criteria such as the Centers for Medicare & Medicaid Services (CMS) national coverage determination (NCD) or local coverage determination (LCD) for Medicare Advantage plans. Please refer to the member's policy documents (e.g., Certificate/Evidence of Coverage, Schedule of Benefits, Plan Formulary) or contact the Plan to confirm coverage.*

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## Summary

Dupixent (dupilumab), a monoclonal antibody that inhibits interleukin-4 (IL-4) and interleukin-13 (IL-13) signaling, is FDA-approved for the following conditions:

1. Allergic Fungal Rhinosinusitis
2. Atopic Dermatitis
3. Asthma
4. Bullous Pemphigoid
5. Chronic Obstructive Pulmonary Disease
6. Chronic Rhinosinusitis with Nasal Polyposis (CRSwNP)
7. Chronic Spontaneous Urticaria
8. Eosinophilic Esophagitis
9. Prurigo Nodularis

If an individual is a current smoker or vaper, they should be counseled on the harmful effects of smoking and vaping on pulmonary conditions and available smoking and vaping cessation options.

## Definitions

“Allergic Fungal Rhinosinusitis (AFRS)” is a distinct type of chronic rhinosinusitis (CRS). AFRS is believed to result from chronic, intense allergic inflammation directed against colonizing fungi.

“Asthma” is defined by the The National Asthma Education and Prevention Program (NAEPP) guidelines as “a chronic inflammatory disease of the airways in which many cells and cellular elements play a role: in particular mast cells, neutrophils, eosinophils, T lymphocytes, macrophages, and epithelial cells. In

susceptible individuals, this inflammation causes recurrent episodes of coughing (particularly at night or early in the morning), wheezing, breathlessness, and chest tightness. The episodes are usually associated with widespread but variable airflow obstruction that is reversible either spontaneously or as a result of treatment." Depending on symptoms and pulmonary function testing, asthma can be further classified into different severity such as mild intermittent, mild persistent, moderate persistent, and severe persistent.

"Bullous pemphigoid" is an autoimmune subepidermal blistering disorder and generally presents with tense bullae and intense generalized pruritus.

"Chronic rhinosinusitis with nasal polyposis (CRSwNP)" is chronic inflammation of the nose and paranasal sinuses with the presence of bilateral nasal polyps, often inadequately controlled with intranasal corticosteroids.

"COPD" refers to chronic obstructive pulmonary disease, a lung disease characterized by chronic obstruction of lung airflow that interferes with normal breathing

"COPD exacerbation" is defined as an acute worsening of respiratory symptoms that results in additional therapy.

"Chronic Spontaneous Urticaria (CSU)" or "Chronic Idiopathic Urticaria" are used interchangeably. CSU is not triggered by identifiable factors, and specifically excludes physical urticaria or other inducible forms of urticaria. CSU is defined by the presence of recurrent urticaria (hives or wheals), angioedema, or both, for a period of 6 weeks or longer. If the standard therapeutic dose of a non-sedating second-generation H1 antihistamine does not relieve symptoms, guidelines recommend up-dosing to four times the standard dose.

"Documentation" refers to written information, including but not limited to:

- Up-to-date chart notes, relevant test results, and/or relevant imaging reports to support diagnoses; or
- Prescription claims records, and/or prescription receipts to support prior trials of formulary alternatives.

"Dysphagia" is trouble swallowing.

"Eczema" is a condition that can cause skin on different parts of the body to be itchy, inflamed and rough. It is also commonly referred to as "atopic dermatitis."

"Eosinophilic Asthma" refers to asthma characterized by elevated levels of eosinophils, measured in the blood ( $\geq 150$  cells/mcL), sputum, or lung tissue.

"Eosinophilic Esophagitis" is a chronic immune-mediated disease characterized by eosinophilic infiltration of the esophagus ( $\geq 15$  eosinophils per high-power field) and symptoms like dysphagia.

"Exacerbations" is trouble breathing. In asthma, this is sometimes called an asthma attack or acute bronchospasm. This is usually because the air passages have become tighter and narrower than normal, causing coughing, shortness of breath, and wheezing.

"FEV1" is forced expiratory volume in 1 second, a measure of lung function

"ICS" is inhaled corticosteroid, an anti-inflammatory medication

"LABA" is long-acting beta2-agonist, a bronchodilator medication

"LAMA" is long-acting muscarinic antagonist, an anticholinergic bronchodilator medication

"Nasal polyps" are growths that form in the nose or the sinuses. They can be large or small, are usually found in both sides of the nose, and can make it hard to breathe through the nose.

"Oral Corticosteroid Dependent Asthma" is asthma that requires daily or near-daily systemic corticosteroids to maintain control.

"Phenotype" is a recognizable pathophysiologic characteristic. Asthma has phenotypes such as allergic asthma or eosinophilic asthma.

"Prurigo Nodularis" refers to a skin disease characterized by intensely pruritic, hyperkeratotic papules and nodules.

"Worst-Itch Numeric Rating Scale (WI-NRS)" is a useful, quick, and validated tool to reliably measure itch severity, rated on a scale from 0 ("no itch") to 10 ("worst imaginable itch").

"[s]" indicates state mandates may apply.

## Clinical Indications

### Medical Necessity Criteria for Clinical Review

#### General Medical Necessity Criteria for Initial Clinical Review

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

1. Prescribed by or in consultation with a specialist experienced in the diagnosis and treatment of the relevant condition:
  - a. Allergic Fungal Rhinosinusitis - allergist/immunologist or otolaryngologist; *or*
  - b. Moderate-to-severe atopic dermatitis - dermatologist or allergist/immunologist; *or*

- c. Moderate-to-severe asthma - allergist/immunologist or pulmonologist; *or*
  - d. Bullous Pemphigoid (BP) - dermatologist, hematologist, or oncologist; *or*
  - e. Chronic rhinosinusitis with nasal polyps (CRSwNP) - allergist/immunologist or otolaryngologist; *or*
  - f. Chronic obstructive pulmonary disease (COPD) - allergist/immunologist or pulmonologist; *or*
  - g. Chronic spontaneous urticaria - allergist/immunologist or dermatologist; *or*
  - h. Eosinophilic esophagitis (EoE) - gastroenterologist or allergist/immunologist; *or*
  - i. Immune Checkpoint Inhibitor-Related Toxicities - dermatologist, hematologist or oncologist; *or*
  - j. Prurigo nodularis (PN) - dermatologist or allergist/immunologist; *AND*
2. Dupixent (dupilumab) is being prescribed at a dose and frequency that is within FDA approved labeling (see [Appendix A](#)) OR is supported by compendia or evidence-based published dosing guidelines for the requested indication; *AND*
  3. For all indications, the member cannot use the requested medication concomitantly with any other biologic drug or targeted synthetic drug for the same indication; *AND*
  4. Documentation is provided showing the member meets ALL of the following indication-specific criteria below (see [Initial Indication-Specific Criteria](#)):

#### Initial Indication-Specific Criteria

##### Allergic Fungal Rhinosinusitis (AFRS)

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#); *AND*
6. The member is 6 years of age or older weighing at least 15 kg (33 lbs); *AND*
7. The member has a diagnosis of allergic fungal rhinosinusitis (AFRS) that is confirmed with ALL of the following:
  - a. The member has had IgE mediated inflammatory response to fungal hyphae (specific IgE serology or skin test), evidence of sensitization to fungus by skin testing, or positive fungal-specific IgE in serum; *and*
  - b. The member has had nasal polyposis confirmed by nasal endoscopy; *and*
  - c. The member has an endoscopic nasal polyp score (NPS) of greater than or equal ( $\geq$ ) to 2 out of 4 for unilateral polyps OR greater than or equal to 3 ( $\geq$ ) out of 8 for bilateral polyps; *and*
  - d. The member has had a characteristic CT scan which includes ONE of the following:
    - i. Hyperdensities; *or*
    - ii. Bony demineralization; *or*
    - iii. Bone erosion of sinus; *and*
  - e. The member has evidence of sinus opacification with a Lund Mackay (LMK) score of greater than or equal ( $\geq$ ) to 9 for members with unilateral polyps and greater than ( $\geq$ ) 12 for members with bilateral polyps; *and*
  - f. The member has a presence of eosinophilic mucin without invasion; *and*
8. The member has a history of sino-nasal surgery<sup>[5]</sup>; *AND*

9. The member had a positive fungal stain of sinus contents removed at the time of surgery.

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 6-months.<sup>[S]</sup>

Atopic Dermatitis, moderate to severe

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#);  
*AND*
6. The member is 6 months of age or older; *AND*
7. The member has a diagnosis of moderate-to-severe atopic dermatitis; *AND*
8. The member's affected body surface area (BSA) before treatment meets ONE (1) of the following:
  - a. Involvement of is equal to or greater ( $\geq$ ) than 10% of BSA; *or*
  - b. Involvement is less than 10% but sensitive body areas (e.g., hands, feet, face, neck, scalp, genitals/groin, intertriginous areas) are affected; *AND*
9. The member is unable to use, or has tried and failed ONE (1) of the following topical therapies for at least 8 weeks each in the past 365 days<sup>[S]</sup>:
  - a. A topical corticosteroid (TCS) from medium potency (group III to IV) classes to higher potencies (groups I to II) classes (see [Appendix B, Table 4](#)); *and/or*
  - b. Tacrolimus ointment; *and/or*
  - c. Eucrisa (crisaborole) [PA may be required, please check the member's Plan-specific Formulary].

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 4-months.<sup>[S]</sup>

Asthma, moderate to severe:

- with an eosinophilic phenotype; *or*
- oral corticosteroid (OCS)-dependent (regardless of phenotype)

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#);  
*AND*
6. The member is 6 years of age or older; *AND*
7. The member has a diagnosis of moderate-to-severe asthma; *AND*
8. The member meets ONE (1) of the following criteria:
  - a. The member has a history of ALL of the following within the last 12 months:
    - i. The member meets ONE of the following:
      1. Two or more ( $\geq 2$ ) exacerbations requiring oral or systemic corticosteroids treatment; *or*
      2. One or more ( $\geq 1$ ) exacerbation resulting in hospitalization or intensive care unit (ICU) admission; *and*

- ii. The member has tried and failed, or is unable to use, ALL of the following for at least 3 months<sup>[s]</sup>:
    - 1. High-dose inhaled corticosteroids (ICS); *and*
    - 2. Adjunctive therapy (in combination with inhaled corticosteroid), such as ONE (1) of the following:
      - a. Long-Acting Beta-2 Agonists (LABA), such as formoterol or salmeterol; *or*
      - b. Leukotriene Receptor Antagonist (LTRA), such as montelukast (Singulair) or zafirlukast (Accolate); *or*
      - c. Long-Acting Muscarinic Antagonists (LAMA), such as tiotropium; *or*
      - d. Extended-release theophylline; *or*
  - b. The member has documented evidence of ALL of the following:
    - i. baseline blood eosinophil count of at least 150 cells per microliter; *and*
    - ii. Inadequate asthma control (e.g., requiring urgent, unscheduled care, hospitalization, or ICU admission) within the last 12 months AND the member is unable to use or has tried and failed BOTH of the following for at least three (3) months<sup>[s]</sup>:
      - 1. High-dose inhaled corticosteroids (ICS); *and*
      - 2. Adjunctive therapy (in combination with inhaled corticosteroid), such as ONE (1) of the following:
        - a. Long-Acting Beta-2 Agonists (LABA), such as formoterol or salmeterol; *or*
        - b. Leukotriene Receptor Antagonist (LTRA), such as montelukast (Singulair) or zafirlukast (Accolate); *or*
        - e. Long-Acting Muscarinic Antagonists (LAMA), such as tiotropium; *or*
        - c. Extended-release theophylline; *AND*
9. Dupixent (dupilumab) will NOT be used as monotherapy as the member will continue to use with maintenance asthma treatments (i.e., inhaled corticosteroid and additional controller).

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 6-months.<sup>[s]</sup>

#### Bullous Pemphigoid (BP)

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

- 5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#); *AND*
- 6. The member is 18 years or older; *AND*
- 7. The member has a diagnosis of moderate-to-severe bullous pemphigoid; *AND*
- 8. The member's diagnosis has been confirmed by ONE of the following:
  - a. Direct immunofluorescence (DIF) study; *or*
  - b. Immune serological test(s) (e.g., Indirect immunofluorescence microscopy [IIF], ELISA); *AND*

9. The member demonstrates characteristic clinical features of bullous pemphigoid (e.g., urticarial or eczematous or erythematous plaques, bullae, pruritus); *AND*
10. The member is unable to use or has tried and failed ONE (1) oral systemic corticosteroid (e.g., prednisone or prednisolone)<sup>[s]</sup>.

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 6-months.<sup>[s]</sup>

Chronic Obstructive Pulmonary Disease (COPD), refractory (prevention of exacerbation)

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#); *AND*
6. The member is 18 years of age or older; *AND*
7. The member has a diagnosis of chronic obstructive pulmonary disease (COPD); *AND*
8. Inadequate control of COPD as evidenced by ONE (1) of the following<sup>[s]</sup>:
  - a. History of  $\geq 2$  moderate exacerbations in the past 12 months despite adherence to a 3-month trial of triple therapy with ALL of the following:
    - i. Long-acting beta-2 agonist (LABA); *and*
    - ii. Long-acting muscarinic antagonist (LAMA); *and*
    - iii. Inhaled corticosteroid (ICS); *or*
  - b. History of  $\geq 1$  severe exacerbation in the past 12 months requiring hospitalization or observation for over 24 hours in an emergency department or urgent care facility despite adherence to a 3-month trial of triple therapy as described above; *or*
  - c. Inadequate response to a 3-month trial of LABA + LAMA combination therapy if ICS is contraindicated; *AND*
9. Eosinophilic phenotype, as evidenced by baseline blood eosinophil count  $\geq 300$  cells/mcL; *AND*
10. Dupixent (dupilumab) will be used in combination with continued COPD maintenance therapy (e.g., ICS with LAMA and LABA, LAMA and LABA).

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 12-months.<sup>[s]</sup>

Chronic Rhinosinusitis with Nasal Polyposis (CRSwNP)

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#); *AND*
6. The member is 12 years of age or older; *AND*
7. The member has a diagnosis of chronic rhinosinusitis with nasal polyps (CRSwNP); *AND*
8. The member has documentation of ONE (1) of the following:
  - a. Bilateral nasal endoscopy, anterior rhinoscopy, or computed tomography (CT) showing polyps reaching below the lower border of the middle turbinate or beyond in each nostril; *or*

- b. Meltzer Clinical Score of 2 or higher in both nostrils; or
  - c. A total endoscopic nasal polyp score (NPS) of at least 5 with a minimum score of 2 for each nostril; AND
9. The member has nasal blockage, congestion, or obstruction AND ONE (1) of the following additional symptoms:
    - a. Rhinorrhea (anterior/posterior); *or*
    - b. Reduction or loss of smell; *or*
    - c. Facial pain or pressure; AND
  10. The member has CRSwNP despite ONE (1) of the following:
    - a. Prior sino-nasal surgery; *or*
    - b. The member is unable to use, or has tried and failed treatment with systemic corticosteroids within the last two years<sup>[s]</sup>; AND
  11. The member has bilateral nasal polyposis and chronic symptoms of sinusitis AND the member is unable to use or has tried and failed intranasal corticosteroid treatment for at least 4 weeks<sup>[s]</sup>; AND
  12. Dupixent (dupilumab) will be used together with a daily intranasal corticosteroid as part of the member's treatment plan, unless the member is unable to use an intranasal corticosteroid.

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 6-months.<sup>[s]</sup>

#### Chronic Spontaneous Urticaria (CSU)

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#); AND
6. The member is 2 years of age or older; AND
7. The member has a diagnosis of chronic spontaneous urticaria (CSU); AND
8. The member has experienced a spontaneous onset of wheals (hives), angioedema, or both, for at least 6 weeks; AND
9. The member remains symptomatic despite maximal up-dosing of a second-generation H1 antihistamine as appropriate (e.g., cetirizine, levocetirizine, desloratadine) for at least 2 weeks (see [Appendix C, Table 5](#))<sup>[s]</sup>; AND
10. The member has been evaluated for other causes of wheals (hives) and/or angioedema, including bradykinin-related angioedema (e.g., angiotensin-converting-enzyme (ACE)-inhibitor induced angioedema, hereditary angioedema) and interleukin-1-associated urticarial syndromes (e.g., auto-inflammatory disorders, urticarial vasculitis).

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 6-months.<sup>[s]</sup>

#### Eosinophilic Esophagitis

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#); *AND*
6. The member is 1 year of age or older; *AND*
7. The member weighs at least 15 kg (33 lbs); *AND*
8. Clinical chart documentation is provided showing ALL of the following:
  - a. The member has a documented diagnosis of eosinophilic esophagitis (EoE); *and*
  - b. The member has eosinophil-predominant inflammation on esophageal biopsy, showing 15 or more eosinophils per high-power field (or approximately 60 eosinophils per mm<sup>2</sup>); *and*
  - c. Secondary (other) causes or contributors of esophageal eosinophilia has been excluded; *and*
  - d. The member has symptoms related to esophageal dysfunction (e.g, abdominal pain, chest pain, food impaction, heartburn, solid food dysphagia, weight loss, vomiting, food refusal, failure to thrive); *and*
  - e. The member meets ONE (1) of the following based on member age:
    - i. For members 1 to 11 years of age - documented history of EoE signs and symptoms; *or*
    - ii. For members 12 years of age and older - documented history of at least 2 episodes of dysphagia per week on average; *AND*
9. The member is unable to use, or has tried and failed BOTH of the following for at least two (2) months<sup>[5]</sup>:
  - a. Proton pump inhibitor therapy, such as omeprazole or esomeprazole; *and*
  - b. Swallowed inhaled respiratory corticosteroid therapy, such as fluticasone or budesonide suspension.

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 6-months.<sup>[5]</sup>

#### Immune Checkpoint Inhibitor-Related Toxicities

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#); *AND*
6. The member is receiving an immune checkpoint inhibitor (e.g., CTLA-4 inhibitor [ipilimumab], PD-1 inhibitor [pembrolizumab, nivolumab, cemiplimab], or PD-L1 inhibitor [atezolizumab, avelumab, durvalumab]); *AND*
7. The member has documentation of ONE (1) of the following:
  - a. Moderate (Grade 2) or severe (Grade 3) pruritus refractory (no response) to ≥1 month trial of gabapentinoids (e.g., gabapentin, pregabalin); *or*
  - b. Moderate (Grade 2) bullous dermatitis if diagnosis of bullous pemphigoid is confirmed by biopsy or serology; *or*

- c. Severe (Grade 3) or life-threatening (Grade 4) bullous dermatitis as a steroid-sparing measure if bullous pemphigoid is confirmed; *or*
- d. Moderate (Grade 2) or severe (Grade 3) bullous dermatitis inadequately controlled with topical/systemic corticosteroids (e.g., prednisone, IV methylprednisolone); *or*
- e. Severe (>30%) body surface area lichen planus and lichenoid diseases).

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 6-months.<sup>[s]</sup>

#### Prurigo Nodularis (PN)

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

- 5. The member meets the above [General Medical Necessity Criteria for Initial Clinical Review](#);  
*AND*
- 6. The member is 18 years of age or older; *AND*
- 7. The member has a documented diagnosis of prurigo nodularis (PN) *AND BOTH* of the following:
  - a. Severe or very severe pruritus intensity (e.g., an average worst itch score of greater than or equal to ( $\geq$ ) 7 on the Worst Itch Numeric Rating Scale (WI-NRS) ranging from 0 to 10);  
*and*
  - b. A minimum of 20 PN lesions in total on both legs, and/or both arms and/or trunk; *AND*
- 8. The member is unable to use, or has tried and failed ONE (1) of the following<sup>[s]</sup>:
  - a. Topical corticosteroid (TCS) from medium potency (group III to IV) classes to higher potencies (groups I to II) classes (see [Appendix B, Table 4](#)); *or*
  - b. Topical calcineurin inhibitor (e.g., pimecrolimus, tacrolimus); *or*
  - c. Phototherapy (e.g., UVB, PUVA); *or*
  - d. Pharmacologic treatment with methotrexate or cyclosporine (see [Appendix D](#)).

If the above prior authorization criteria are met, Dupixent (dupilumab) will be approved for up to 6-months.<sup>[s]</sup>

#### *Continued Care*

#### [Medical Necessity Criteria for Subsequent Clinical Review](#)

All prior authorization renewals are subject to review. Reauthorization may be provided based on the diagnosis, response to therapy, and documented medical records and/or pharmacy claims.

#### Subsequent General Medical Necessity Criteria

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

- 1. Dupixent (dupilumab) is being prescribed at a dose and frequency that is within FDA approved labeling (see [Appendix A](#)) *OR* is supported by compendia or evidence-based published dosing guidelines for the requested indication; *AND*
- 2. For all indications, the member cannot use the requested medication concomitantly with any other biologic drug or targeted synthetic drug for the same indication; *AND*

3. Documentation is provided showing the member meets ALL of the following applicable indication-specific criteria (see [Subsequent Indication-Specific Criteria](#)):

#### Subsequent Indication-Specific Criteria

##### Allergic Fungal Rhinosinusitis

The Plan considers Dupixent (dupilumab) medically necessary when ALL of the following criteria are met:

4. The member meets the above [Subsequent General Medical Necessity Criteria](#); *AND*
5. The member is 6 years of age or older weighing at least 15 kg (33lb); *AND*
6. The member's condition has improved on Dupixent (dupilumab) treatment based upon the prescriber's assessment as demonstrated by ONE (1) of the following:
  - a. Improvement of symptoms of allergic fungal rhinosinusitis (e.g., improvement in sense of smell, improvement in SNOT-22 scores); *or*
  - b. Lower Lund-Mackay score; *or*
  - c. Minimal or no eosinophilic mucin; *or*
  - d. Reduction in nasal congestion or blockage; *or*
  - e. Reduction of nasal polyps or formation of new polyps.; *or*
  - f. Reduction in sinus opacification; *or*
  - g. Reduction in the need for rescue treatment.

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[5]</sup>

##### Atopic dermatitis, moderate to severe

The Plan considers Dupixent (dupilumab) medically necessary when recent chart documentation (within the past 6 months) is provided showing ALL of the following criteria are met:

4. The member meets the above [Subsequent General Medical Necessity Criteria](#); *AND*
5. The member is 6 months of age or older; *AND*
6. The member's condition has improved on Dupixent (dupilumab) treatment based upon the prescriber's assessment as demonstrated by at least ONE (1) of the following:
  - a. Decreased disease activity (e.g., a reduction in BSA%); *or*
  - b. Symptomatic improvement (e.g., redness, itching, oozing/crusting).

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[5]</sup>

##### Asthma, moderate to severe:

- with an eosinophilic phenotype; *or*
- oral corticosteroid (OCS)-dependent (regardless of phenotype)

4. The Plan considers Dupixent (dupilumab) medically necessary when recent chart documentation (within the past 6 months) is provided showing ALL of the following criteria are met: The member meets the above Subsequent General Medical Necessity Criteria; *AND*
5. The member is 6 years of age or older; *AND*
6. The member's condition has improved on Dupixent (dupilumab) treatment based upon the prescriber's assessment as demonstrated by at least ONE (1) of the following:
  - a. A reduction in the frequency and/or severity of symptoms and exacerbations; *or*
  - b. A reduction in the daily maintenance oral corticosteroid dose; *AND*
7. Dupixent (dupilumab) will NOT be used as monotherapy as the member will continue to use with maintenance asthma treatments (i.e., inhaled corticosteroid and additional controller).

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[6]</sup>

#### Bullous Pemphigoid (BP)

The Plan considers Dupixent (dupilumab) medically necessary when recent chart documentation (within the past 6 months) is provided showing ALL of the following criteria are met:

4. The member meets the above Subsequent General Medical Necessity Criteria; *AND*
5. The member is 18 years of age or older; *AND*
6. The member has experienced a positive response as demonstrated by ONE (1) of the following:
  - a. Low disease activity (e.g., absence of new or established lesions); *or*
  - b. Reduction in pruritus intensity and improvement in extent and severity of lesions.

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[6]</sup>

#### Chronic Obstructive Pulmonary Disease (COPD), refractory (prevention of exacerbation)

The Plan considers Dupixent (dupilumab) medically necessary when recent chart documentation (within the past 6 months) is provided showing ALL of the following criteria are met:

4. The member meets the above Subsequent General Medical Necessity Criteria; *AND*
5. The member is 18 years of age or older; *AND*
6. The member's condition has improved or stabilized while on Dupixent as demonstrated by at least ONE (1) of the following:
  - a. Reduction in the frequency and/or severity of COPD exacerbations; *or*
  - b. Improvement in respiratory symptoms and functional capacity (e.g., reduced dyspnea, increased exercise tolerance, improved ability to perform daily activities); *or*
  - c. Reduction in COPD-related healthcare utilization (e.g., fewer emergency department visits, hospitalizations, or unscheduled healthcare provider visits); *or*
  - d. Improvement in lung function parameters (e.g., increased FEV1, improved FEV1/FVC ratio); *or*

- e. Disease stability since starting the requested medication; *AND*
- 7. Dupixent (dupilumab) will be used in combination with continued COPD maintenance therapy (e.g., ICS with LAMA and LABA, LAMA and LABA).

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[5]</sup>

#### Chronic Rhinosinusitis with Nasal Polyposis (CRSwNP)

The Plan considers Dupixent (dupilumab) medically necessary when recent chart documentation (within the past 6 months) is provided showing ALL of the following criteria are met:

- 4. The member meets the above Subsequent General Medical Necessity Criteria; *AND*
- 5. The member is 12 years of age or older; *AND*
- 6. The member's condition has improved on Dupixent (dupilumab) treatment based upon the prescriber's assessment as demonstrated by symptomatic improvement of CRSwNP (e.g., improvement in nasal congestion, nasal polyp size, loss of smell, anterior or posterior rhinorrhea, sinonasal inflammation, hyposmia and/or facial pressure or pain or reduction in corticosteroid use); *AND*
- 7. The member will continue consistent use of intranasal corticosteroids while on Dupixent (dupilumab) therapy, unless the member is unable to use intranasal corticosteroid.

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[5]</sup>

#### Chronic Spontaneous Urticaria (CSU)

The Plan considers Dupixent (dupilumab) medically necessary when recent chart documentation (within the past 6 months) is provided showing ALL of the following criteria are met:

- 4. The member meets the above Subsequent General Medical Necessity Criteria; *AND*
- 5. The member is 2 years of age or older; *AND*
- 6. The member has experienced a positive response (e.g., improved symptoms, decrease in weekly urticaria activity score [UAS7]) since initiation of therapy).

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[5]</sup>

#### Eosinophilic Esophagitis

The Plan considers Dupixent (dupilumab) medically necessary when recent chart documentation (within the past 6 months) is provided showing ALL of the following criteria are met:

- 4. The member meets the above Subsequent General Medical Necessity Criteria; *AND*
- 5. The member is 1 year of age or older weighing at least 15 kg (33 lbs); *AND*
- 6. The member has experienced ONE (1) of the following:
  - a. Complete regression of disease; *or*

- b. Improvement in clinical symptoms (e.g, abdominal pain, chest pain, food impaction, heartburn, solid food dysphagia, weight loss, vomiting, food refusal, failure to thrive); *or*
- c. Reduction in eosinophilic infiltration of the esophagus; *or*
- d. Reduced incidence or recurrence of food impaction.

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[s]</sup>

#### Immune checkpoint inhibitor toxicities

- 4. The Plan considers **Dupixent (dupilumab)** medically necessary when recent chart documentation (within the past 6 months) is provided showing ALL of the following criteria are met: The member meets the above **Subsequent General Medical Necessity Criteria**; **AND**
- 5. The member continues to receive an immune checkpoint inhibitor [e.g., CTLA-4 inhibitor (ipilimumab), PD-1 inhibitor (pembrolizumab, nivolumab, cemiplimab), or PD-L1 inhibitor (atezolizumab, avelumab, durvalumab)] as applicable to the member and as documented as appropriate by the provider; **AND**
- 6. The member has documented improvement in immune-related adverse events attributed to checkpoint inhibitor therapy supported by ONE (1) of the following:
  - a. Clinically meaningful reduction in pruritus or rash severity; *or*
  - b. Improvement in other dermatologic toxicities (e.g. bullous dermatitis); *or*
  - c. Resolution or improvement of other immune-related adverse events that necessitated Dupixent (dupilumab) use; *or*
  - d. Other meaningful improvements.

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[s]</sup>

#### Prurigo Nodularis (PN)

The Plan considers **Dupixent (dupilumab)** medically necessary when recent chart documentation (within the past 6 months) is provided showing ALL of the following criteria are met:

- 4. The member meets the above **Subsequent General Medical Necessity Criteria**; **AND**
- 5. The member is 18 years of age or older; **AND**
- 6. The member's condition has improved on Dupixent (dupilumab) treatment based upon the prescriber's assessment as demonstrated by ONE (1) of the following:
  - a. A clinically meaningful reduction in itch from baseline; *or*
  - b. Achieved clear or almost clear skin (e.g., reduction in number or severity of lesions); *or*
  - c. Improvements in measures of overall health-related quality of life, skin pain, and symptoms of anxiety and depression.

If the above reauthorization criteria are met, the requested product will be authorized for up to 12-months.<sup>[s]</sup>

**Experimental / Investigational, or unproven<sup>[s]</sup>**

Dupixent (dupilumab) for any other indication is considered experimental, investigational, or unproven. Additionally, the safety and efficacy of this medication in members younger than the approved age for each indication has not been established. Non-covered indications include, but are not limited to, the following:

- Allergic fungal rhinosinusitis in members under 6 years of age.
- Asthma in members under 6 years of age.
- Mild atopic dermatitis or atopic dermatitis adequately controlled with topical therapies.
- Atopic dermatitis in members under 6 months of age.
- Bullous pemphigoid in members under 18 years of age.
- Chronic rhinosinusitis with nasal polyps in members under 12 years of age.
- Chronic spontaneous urticaria under 2 years of age.
- Eosinophilic gastritis, gastroenteritis, or colitis.
- Eosinophilic granulomatosis with polyangiitis (EGPA).
- Food allergy, including peanut allergy.
- Hypereosinophilic syndromes.
- Immune checkpoint inhibitor-related toxicities for:
  - Mild (Grade 1) or moderate (Grade 2) pruritus (without failure of gabapentinoid for at least 1 month, or without confirmed diagnosis of bullous pemphigoid)
  - Mild (Grade 1) bullous dermatitis.
- Prurigo nodularis in members under 18 years of age.
- Severe allergic conjunctivitis.
- Severe chronic rhinosinusitis without nasal polyposis.

**Applicable Billing Codes**

Table 1	
CPT/HCPCS codes considered medically necessary if criteria are met:	
<i>Code</i>	<i>Description</i>
C9399	Dupixent Unclassified drugs or biologicals
J3590	Dupixent Unclassified biologics

Table 2	
ICD-10 diagnosis codes considered medically necessary with Table 1 (CPT/HCPCS) codes if criteria are met:	
<i>Code</i>	<i>Description</i>
B49	Unspecified mycosis
J30.89	Other allergic rhinitis
J32.9	Chronic sinusitis, unspecified
J33.0	Polyp of nasal cavity
J33.1	Polypoid sinus degeneration
J33.8	Other polyp of sinus
J33.9	Nasal polyp, unspecified
J42	Unspecified chronic bronchitis
J43.0	Unilateral pulmonary emphysema
J43.1	Panlobular emphysema
J43.2	Centrilobular emphysema
J43.8	Other emphysema
J43.9	Emphysema, unspecified
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation
J44.9	Chronic obstructive pulmonary disease, unspecified
J45.20	Mild intermittent asthma, uncomplicated
J45.30	Mild persistent asthma, uncomplicated
J45.40	Moderate persistent asthma, uncomplicated
J45.41	Moderate persistent asthma with (acute) exacerbation
J45.50	Severe persistent asthma, uncomplicated
J45.51	Severe persistent asthma with (acute) exacerbation
J45.901	Unspecified asthma with (acute) exacerbation
J45.902	Unspecified asthma with status asthmaticus

Table 2	
ICD-10 diagnosis codes considered medically necessary with Table 1 (CPT/HCPCS) codes if criteria are met:	
<i>Code</i>	<i>Description</i>
J45.909	Unspecified asthma, uncomplicated
J45.990	Exercise induced bronchospasms
J45.991	Cough variant asthma
J45.998	Other asthma
J82.83	Eosinophilic asthma
K20.0	Eosinophilic esophagitis
L12.0	Bullous Pemphigoid
L20.0	Besnier's prurigo
L20.81	Atopic neurodermatitis
L20.82	Flexural eczema
L20.83	Infantile (acute) (chronic) eczema
L20.84	Intrinsic (allergic) eczema
L20.89	Other atopic dermatitis
L20.9	Atopic dermatitis, unspecified
L28.1	Prurigo nodularis
L50.1	Idiopathic urticaria
L50.8	Other urticaria

## References

1. AAAAI/ACAAI JTF Atopic Dermatitis Guideline Panel; Chu DK, Schneider L, Asiniwasis RN, et al. Atopic dermatitis (eczema) guidelines: 2023 American Academy of Allergy, Asthma and Immunology/American College of Allergy, Asthma and Immunology Joint Task Force on practice parameters GRADE - and Institute of Medicine - based recommended. *Ann Allergy Asthma Immunol.* 2024 Mar; 132(3):274-312. Doi: 10.1016/j.anai.2023.11.009. Epub 2023 Dec 18.
2. Agache I, Akdis CA, Akdis M, et al. EAACI Biologicals Guidelines-Recommendations for severe asthma. *Allergy.* 2021 Jan;76(1):14-44. doi: 10.1111/all.14425. Epub 2020 Aug 10.
3. Albert D, Heifert TA, Min SB, et al. Comparisons of fluticasone to budesonide in the treatment of eosinophilic esophagitis. *Dig Dis Sci.* 2016;61(7):1996-2001.[PubMed 27093866]

4. Alotaibi NH, Abaalkhail M, Almusa H, Alshenaifi LA, Alomairin A. Utilization of dupilumab in an immunocompromised patient with extensive allergic fungal rhinosinusitis unsuitable for surgical intervention: A case report. *Int J Surg Case Rep.* 2025 Jan;126:110642. doi: 10.1016/j.ijscr.2024.110642. Epub 2024 Nov 23.
5. Amil-Dias J, Oliva S, Papadopoulou A, et al. Diagnosis and management of eosinophilic esophagitis in children: An update from the European Society for Paediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN). *J Pediatr Gastroenterol Nutr.* 2024 Aug;79(2):394-437. doi: 10.1002/jpn3.12188. Epub 2024 Jun 24.
6. Andrae DA, Hanna MG, Magid MS, et al. Swallowed fluticasone propionate is an effective long-term maintenance therapy for children with eosinophilic esophagitis. *Am J Gastroenterol.* 2016;111(8):1187-1197.[PubMed 27325220]
7. Armstrong A, Blauvelt A, Simpson EL, et al. Continued Treatment with Dupilumab is Associated with Improved Efficacy in Adults with Moderate-to-Severe Atopic Dermatitis Not Achieving Optimal Responses with Short-Term Treatment. *Dermatol Ther (Heidelb).* 2022 Jan;12(1):195-202. doi: 10.1007/s13555-021-00643-4. Epub 2021 Dec 13.
8. Arnold MJ, Buel A. Treatment of Chronic Obstructive Pulmonary Disease: Guidelines from the VA/DoD. *Am Fam Physician.* 2021 Jul 1;104(1):98-99. PMID: 34264617.
9. Arnold MJ. Treatment of Chronic Obstructive Pulmonary Disease: Guidelines from the American Thoracic Society. *Am Fam Physician.* 2021 Jul 1;104(1):102-103. PMID: 34264596.
10. Bacharier LB, Maspero JF, Katelaris CH, et al. Dupilumab in Children with Uncontrolled Moderate-to-Severe Asthma. *N Engl J Med.* 2021 Dec 9;385(24):2230-2240. doi: 10.1056/NEJMoa2106567.
11. Bachert C, Han JK, Desrosiers M, et al. Efficacy and safety of dupilumab in patients with severe chronic rhinosinusitis with nasal polyps (LIBERTY NP SINUS-24 and LIBERTY NP SINUS-52): results from two multicentre, randomised, double-blind, placebo-controlled, parallel-group phase 3 trials. *Lancet.* 2019;394(10209):1638.
12. Baigrie D, Nookala V. Bullous Pemphigoid. [Updated 2023 Mar 2]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2025 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK535374/>. Accessed July 30, 2025.
13. Bhatt SP, Rabe KF, Hanania NA, et al. Dupilumab for COPD with Type 2 Inflammation Indicated by Eosinophil Counts. *N Engl J Med.* 2023 Jul 20;389(3):205-214. doi: 10.1056/NEJMoa2303951. Epub 2023 May 21.
14. Bhatt SP, Rabe KF, Hanania NA, et al. Dupilumab for COPD with Blood Eosinophil Evidence of Type 2 Inflammation. *N Engl J Med.* 2024 Jun 27;390(24):2274-2283. doi: 10.1056/NEJMoa2401304. Epub 2024 May 20.
15. Blauvelt A, de Bruin-Weller M, Gooderham M, et al. Long-term management of moderate-to-severe atopic dermatitis with dupilumab and concomitant topical corticosteroids (LIBERTY AD CHRONOS): a 1-year, randomised, double-blinded, placebo-controlled, phase 3 trial. *Lancet.* 2017 Jun 10;389(10086):2287-2303. doi: 10.1016/S0140-6736(17)31191-1. Epub 2017 May 4.
16. Boguniewicz M, Fonacier L, Guttman-Yassky E, Ong PY, Silverberg J. Atopic dermatitis yardstick update. *Ann Allergy Asthma Immunol.* 2023 Jun; 130(6):811-820. doi:10.1016/j.anai.2023.03.010. Epub 2023 mar 16.
17. Bonis P, Gupta SK. Treatment of eosinophilic esophagitis. Post TW, ed. UpToDate. Waltham, MA: UpToDate Inc. <https://www.uptodate-com>. Accessed June 9, 2022.
18. Borradori L, Van Beek N, Feliciani C, et al. Updated S2 K guidelines for the management of bullous pemphigoid initiated by the European Academy of Dermatology and Venereology (EADV). *J Eur Acad Dermatol Venereol.* 2022 Oct;36(10):1689-1704.
19. Busse WW, Maspero JF, Rabe KF, et al. Liberty Asthma QUEST: Phase 3 Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate Dupilumab Efficacy/Safety in Patients with Uncontrolled, Moderate-to-Severe Asthma. *Adv Ther.* 2018 May;35(5):737-748. doi: 10.1007/s12325-018-0702-4. Epub 2018 May 3.

20. Casale TB, Saini SS, Ben-Shoshan M, et al. Dupilumab in Patients With Chronic Spontaneous Urticaria: Phase 3 LIBERTY-CSU CUPID Randomized Clinical Trials. *JAMA Dermatol*. 2026 Feb 18:e256023. doi: 10.1001/jamadermatol.2025.6023. Epub ahead of print.
21. Castro M, Corren J, Pavord ID, et al. Dupilumab efficacy and safety in moderate-to-severe uncontrolled Asthma. *N Engl J Med*. 2018;378(26):2486-2496.
22. Chehade M, Dellon ES, Spergel JM, et al. Dupilumab for Eosinophilic Esophagitis in Patients 1 to 11 Years of Age. *N Engl J Med*. 2024 Jun 27;390(24):2239-2251. doi: 10.1056/NEJMoa2312282.
23. Chuang MY, Chinnaratha MA, Hancock DG, et al. Topical steroid therapy for the treatment of eosinophilic esophagitis (EoE): A systematic review and meta-analysis. *Clin Transl Gastroenterol*. 2015;6:e82. doi:10.1038/ctg.2015.9[PubMed 25809314]
24. Cloutier MM, Dixon AE, Krishnan JA, et al. Managing asthma in adolescents and adults: 2020 asthma guideline update from the National Asthma Education and Prevention Program. *JAMA*. 2020;324(22):2301-2317.
25. Cork MJ, Thaçi D, Eichenfield LF, et al. Dupilumab in adolescents with uncontrolled moderate-to-severe atopic dermatitis: results from a phase IIa open-label trial and subsequent phase III open-label extension. *Br J Dermatol*. 2020 Jan;182(1):85-96. doi: 10.1111/bjd.18476. Epub 2019 Oct 8.
26. Criner GJ, Bourbeau J, Diekemper RL, Ouellette DR, Goodridge D, Hernandez P, Curren K, Balter MS, Bhutani M, Camp PG, Celli BR, Dechman G, Dransfield MT, Fiel SB, Foreman MG, Hanania NA, Ireland BK, Marchetti N, Marciniuk DD, Mularski RA, Ornelas J, Road JD, Stickland MK. Prevention of acute exacerbations of COPD: American College of Chest Physicians and Canadian Thoracic Society Guideline. *Chest*. 2015 Apr;147(4):894-942. doi: 10.1378/chest.14-1676. PMID: 25321320; PMCID: PMC4388124.
27. Davis DMW, Drucker AM, Alikhan A, et al. Executive summary: guidelines of care for the management of atopic dermatitis in adults with phototherapy and systemic therapies. *J Am Acad Dermatol*. 2024 Feb; 90(2):342-345. doi:10.1016/j.jaad.2023.08.103. Epub 2023 Nov 7.
28. Davis DMR, Frazer-Green L, Alikhan A, et al. Focused update: Guidelines of care for the management of atopic dermatitis in adults. *J Am Acad Dermatol*. 2025 Sep;93(3):745.e1-745.e7. doi: 10.1016/j.jaad.2025.05.1386. Epub 2025 Jun 17.
29. de Bortoli N, Visaggi P, Penagini R, et al. The 1st EoETALY Consensus on the Diagnosis and Management of Eosinophilic Esophagitis - Definition, Clinical Presentation and Diagnosis. *Dig Liver Dis*. 2024 Jun;56(6):951-963. doi: 10.1016/j.dld.2024.02.005. Epub 2024 Feb 28.
30. De Corso E, Canonica GW, Heffler E, et al. Dupilumab versus omalizumab in patients with chronic rhinosinusitis with nasal polyps and coexisting asthma (EVEREST): a multicentre, randomised, double-blind, head-to-head phase 4 trial. *Lancet Respir Med*. 2025 Dec;13(12):1067-1077. doi: 10.1016/S2213-2600(25)00287-5. Epub 2025 Sep 28.
31. Dellon ES, Falk GW, Katzka DA, et al. American Society for Gastrointestinal Endoscopy consensus recommendations on the endoscopic management of eosinophilic esophagitis-part 2: disease assessment, monitoring, and pediatric considerations. *Gastrointest Endosc*. 2026 Mar;103(3):396-417. doi: 10.1016/j.gie.2025.10.032. Epub 2026 Jan 8.
32. Dellon ES, Gonsalves N, Hirano I, Furuta GT, Liacouras CA, Katzka DA; American College of Gastroenterology. ACG clinical guideline: evidence based approach to the diagnosis and management of esophageal eosinophilia and eosinophilic esophagitis (EoE). *Am J Gastroenterol*. 2013;108(5):679-692. doi:10.1038/ajg.2013.71[PubMed 23567357]
33. Dellon ES, Katzka DA, Collins MH, Hamdani M, Gupta SK, Hirano I; MP-101-06 Investigators. Budesonide oral suspension improves symptomatic, endoscopic, and histologic parameters compared with placebo in patients with eosinophilic esophagitis. *Gastroenterology*. 2017;152(4):776-786.e5. doi: 10.1053/j.gastro.2016.11.021[PubMed 27889574]
34. Dellon ES, Liacouras CA, Molina-Infante J, et al. Updated International Consensus Diagnostic Criteria for Eosinophilic Esophagitis: Proceedings of the AGREE Conference. *Gastroenterology* 2018; 155:1022.

35. Dellon ES, Liacouras CA. Advances in clinical management of eosinophilic esophagitis. *Gastroenterology*. 2014;147(6):1238-1254. doi: 10.1053/j.gastro.2014.07.055[PubMed 25109885]
36. Dellon ES, Muir AB, Katzka DA, et al. ACG Clinical Guideline: Diagnosis and Management of Eosinophilic Esophagitis. *Am J Gastroenterol*. 2025 Jan 1;120(1):31-59. doi: 10.14309/ajg.0000000000003194. Epub 2025 Jan 2.
37. Dellon ES, Rothenberg ME, Collins MH, et al. Dupilumab in Adults and Adolescents with Eosinophilic Esophagitis. *N Engl J Med*. 2022 Dec 22;387(25):2317-2330. doi: 10.1056/NEJMoa2205982.
38. Department of Veterans Affairs/Department of Defense. VA/DoD Clinical Practice Guideline for the Primary Care Management of Asthma. Version 4.0-2025. Available at: [https://www.healthquality.va.gov/guidelines/CD/asthma/Asthma-CPG\\_2025-Guideline\\_final\\_20250528.pdf](https://www.healthquality.va.gov/guidelines/CD/asthma/Asthma-CPG_2025-Guideline_final_20250528.pdf). Accessed 13 February 2026.
39. Desrosiers M, Mannent LP, Amin N, et al. Dupilumab reduces systemic corticosteroid use and sinonasal surgery rate in CRSwNP. *Rhinology*. 2021 Jun 1;59(3):301-311. doi: 10.4193/Rhin20.415.
40. Domingo C, Maspero JF, Castro M, et al. Dupilumab Efficacy in Steroid-Dependent Severe Asthma by Baseline Oral Corticosteroid Dose. *J Allergy Clin Immunol Pract*. 2022 Jul;10(7):1835-1843. doi: 10.1016/j.jaip.2022.03.020. Epub 2022 Apr 8.
41. Drucker AM, Ellis AG, Bohdanowicz M, et al. Systemic Immunomodulatory Treatments for Patients with Atopic Dermatitis: A Systematic Review and Network Meta-analysis. *JAMA Dermatol*. 2020;156(6):659-667.
42. Dupixent (dupilumab) [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals Inc; April 2026.
43. Dupixent. Micromedex. [www.micromedexsolutions.com](http://www.micromedexsolutions.com). Greenwood Village, CO: Truven Health Analytics. Last updated Feb 2022. Accessed February 23, 2022.
44. Eichenfield LF, Tom WL, Berger TG, et al. Guidelines of care for the management of atopic dermatitis: Section 2. Management and treatment of atopic dermatitis with topical therapies. *J Am Acad Dermatol*. 2014;71:116-32. (Including potencies of topical corticosteroids).
45. Eichenfield LF, Tom WL, Berger TG, et al. Guidelines of care for the management of atopic dermatitis. *J Am Acad Dermatol*. 2014;71:116-32.
46. Eichenfield LF et al: Current guidelines for the evaluation and management of atopic dermatitis: a comparison of the Joint Task Force Practice Parameter and American Academy of Dermatology guidelines. *J Allergy Clin Immunol*. 139(4S):S49-S57, 2017.
47. Elmariah S, Kim B, Berger T, et al. Practical approaches for diagnosis and management of prurigo nodularis: United States expert panel consensus. *J Am Acad Dermatol*. 2021 Mar;84(3):747-760. doi: 10.1016/j.jaad.2020.07.025. Epub 2020 Jul 15.
48. Expert Panel Working Group of the National Heart, Lung, and Blood Institute. Guidelines 2020 focused updates for asthma management-summary reported. *J Allergy Clin Immunol* 2020;146(6):1217-1270.
49. Fable JM, Fernandez M, Goodine S, Lerer T, Sayej WN. Retrospective comparison of fluticasone propionate and oral viscous budesonide in children with eosinophilic esophagitis. *J Pediatr Gastroenterol Nutr*. 2018;66(1):26-32.[PubMed 28489670]
50. Falk GW, Pesek R. Pharmacologic Management of Eosinophilic Esophagitis. *Immunol Allergy Clin North Am*. 2024 May;44(2):245-264. doi: 10.1016/j.iac.2023.12.010. Epub 2024 Jan 23. PMID: 38575221.
51. Fattore D, Lauletta G, Pages C, Theret V, Sibaud V. Update on dermatological toxicities of immune checkpoint inhibitors. *Presse Med*. 2025 Nov 22;55(2):104330. doi: 10.1016/j.lpm.2025.104330. Epub ahead of print.
52. Florea CM, Parmentier L, Abdou M, Berthod G. Immune Checkpoint Inhibitor-Induced Bullous Pemphigoid: Successful Treatment with Dupilumab while Maintaining Immunotherapy. *Case Rep Oncol*. 2025 Jul 25;18(1):1171-1177. doi: 10.1159/000547431.
53. Frazier W, Bhardwaj N. Atopic Dermatitis: Diagnosis and Treatment. *Am Fam Physician*. 2020 May 15;101(10):590-598. PMID: 32412211.

54. Furuta GT, Katzka DA: Eosinophilic esophagitis. *N Engl J Med*. 2015, 373:1640-8. doi:10.1056/NEJMra1502863.
55. Glass D, Amedee RG. Allergic fungal rhinosinusitis: a review. *Ochsner J*. 2011 Fall;11(3):271-5. PMID: 21960761; PMCID: PMC3179194.
56. Global Initiative for Asthma (GINA). Global strategy for asthma management and prevention. <https://ginasthma.org/2023-gina-main-report/>. Updated 2023.
57. Global Initiative for Asthma (GINA). Global strategy for asthma management and prevention. <https://ginasthma.org/wp-content/uploads/2021/05/GINA-Main-Report-2021-V2-WMS.pdf>. Updated 2021. Accessed June 9, 2021.
58. Global Initiative for Chronic Obstructive Lung Disease (GOLD). Global Strategy for the Diagnosis, Management, and Prevention of COPD. 2024 Report.
59. Global Initiative for Chronic Obstructive Lung Disease (GOLD). Global Strategy for the Diagnosis, Management, and Prevention of COPD. 2025 Report. Available at: <https://goldcopd.org/2025-gold-report/>. Accessed May 16, 2025.
60. Global Initiative for Chronic Obstructive Lung Disease (GOLD). 2026 Global strategy for the diagnosis, management, and prevention of chronic obstructive pulmonary disease. Available at [https://goldcopd.org/wp-content/uploads/2026/01/GOLD-REPORT-2026-v1.3-8Dec2025\\_WMV2.pdf](https://goldcopd.org/wp-content/uploads/2026/01/GOLD-REPORT-2026-v1.3-8Dec2025_WMV2.pdf). Updated 2026. Accessed 9 March 2026.
61. Griffiths C, de Bruin-Weller M, Deleuran M, et al. Dupilumab in Adults with Moderate-to-Severe Atopic Dermatitis and Prior Use of Systemic Non-Steroidal Immunosuppressants: Analysis of Four Phase 3 Trials. *Dermatol Ther (Heidelb)*. 2021 Aug;11(4):1357-1372. doi: 10.1007/s13555-021-00558-0. Epub 2021 Jun 18.
62. Halling AS, Loft N, Silverberg JI, Guttman-Yassky E, Thyssen JP. Real-world evidence of dupilumab efficacy and risk of adverse events: a systematic review and meta-analysis. *J Am Acad Dermatol*. 2021;84(1):139-147. doi:10.1016/j.jaad.2020.08.051[PubMed 32822798]
63. Hanania NA, Castro M, Bateman E, et al. Efficacy of dupilumab in patients with moderate-to-severe asthma and persistent airflow obstruction. *Ann Allergy Asthma Immunol*. 2023 Feb;130(2):206-214.e2. doi: 10.1016/j.anai.2022.10.018. Epub 2022 Nov 2.
64. Hirano I, Chan ES, Rank MA, et al; AGA Institute Clinical Guidelines Committee; Joint Task Force on Allergy-Immunology Practice Parameters. AGA Institute and the Joint Task Force on Allergy-Immunology Practice Parameters clinical guidelines for the management of eosinophilic esophagitis. *Gastroenterology*. 2020;158(6):1776-1786. doi:10.1053/j.gastro.2020.02.038[PubMed 32359562]
65. Im YH, Stybayeva G, Hwang SH. Short-Term Efficacy of Biologics in Recalcitrant Allergic Fungal Rhinosinusitis: A Systematic Review and Meta-analysis. *Otolaryngol Head Neck Surg*. 2025 Oct;173(4):840-847. doi: 10.1002/ohn.1339. Epub 2025 Jun 24.
66. Kolkhir P, Pogorelov D, Darlenski R, et al. Management of chronic spontaneous urticaria: a worldwide perspective. *World Allergy Organ J*. 2018 Jul 4;11(1):14. doi: 10.1186/s40413-018-0193-4.
67. Maurer M, Casale TB, Saini SS, et al. Dupilumab in patients with chronic spontaneous urticaria (LIBERTY-CSU CUPID): Two randomized, double-blind, placebo-controlled, phase 3 trials. *J Allergy Clin Immunol*. 2024 Jul;154(1):184-194. doi: 10.1016/j.jaci.2024.01.028. Epub 2024 Feb 29.
68. Murali AR, Gupta A, Attar BM, Ravi V, Koduru P. Topical steroids in eosinophilic esophagitis: systematic review and meta-analysis of placebo controlled randomized clinical trials. *J Gastroenterol Hepatol*. 2016;31(6):1111-1119. doi:10.1111/jgh.13281[PubMed 26699695]
69. National Comprehensive Cancer Network (NCCN). Management of Immune Checkpoint Inhibitor-related Toxicities. Version 1. 2026 - Oct 23, 2025. Available at: [https://www.nccn.org/professionals/physician\\_gls/pdf/ici\\_tox.pdf](https://www.nccn.org/professionals/physician_gls/pdf/ici_tox.pdf). Accessed 9 March 2026.
70. National Institute of Health and Care Excellence. Asthma: diagnosis, monitoring, and chronic asthma management (BTS, NICE, SIGN). NG245. 27 Nov 2024. Available at: <https://www.nice.org.uk/guidance/ng245/chapter/Recommendations>. Accessed 13 Feb 2026.

71. National Psoriasis Foundation. Topical Steroids Potency Chart. Retrieved June 9, 2022. Available on the World Wide Web at <https://www.psoriasis.org/potency-chart/>.
72. Orlandi RR, Kingdom TT, Smith TL, et al. International consensus statement on allergy and rhinology: rhinosinusitis 2021. *Int Forum Allergy Rhinol*. 2021 Mar;11(3):213-739. doi: 10.1002/alr.22741. Erratum in: *Int Forum Allergy Rhinol*. 2022 Jul;12(7):974. doi: 10.1002/alr.22987.
73. Paller AS, Siegfried EC, Simpson EL, et al. A phase 2, open-label study of single-dose dupilumab in children aged 6 months to <6 years with severe uncontrolled atopic dermatitis: pharmacokinetics, safety and efficacy. *J Eur Acad Dermatol Venereol*. 2021 Feb;35(2):464-475. doi: 10.1111/jdv.16928. Epub 2020 Nov 8.
74. Paller AS, Siegfried EC, Thaçi D, et al. Efficacy and safety of dupilumab with concomitant topical corticosteroids in children 6 to 11 years old with severe atopic dermatitis: A randomized, double-blinded, placebo-controlled phase 3 trial. *J Am Acad Dermatol*. 2020 Nov;83(5):1282-1293. doi: 10.1016/j.jaad.2020.06.054. Epub 2020 Jun 20. Erratum in: *J Am Acad Dermatol*. 2021 Jan;84(1):230. doi: 10.1016/j.jaad.2020.10.013.
75. Paller AS, Simpson EL, Siegfried EC, et al. Dupilumab in children aged 6 months to younger than 6 years with uncontrolled atopic dermatitis: a randomised, double-blind, placebo-controlled, phase 3 trial. *Lancet*. 2022 Sep 17;400(10356):908-919. doi: 10.1016/S0140-6736(22)01539-2.
76. Papadopoulou A, Amil-Dias J, Auth MK, et al. Joint ESPGHAN/NASPGHAN Guidelines on Childhood Eosinophilic Gastrointestinal Disorders Beyond Eosinophilic Esophagitis. *J Pediatr Gastroenterol Nutr*. 2024 Jan;78(1):122-152. doi: 10.1097/MPG.0000000000003877. Epub 2023 Jul 4. PMID: 38291684.
77. Payne SC, McKenna M, Buckley J, et al. Clinical Practice Guideline: Adult Sinusitis Update. *Otolaryngol Head Neck Surg*. 2025 Aug;173 Suppl 1:S1-S56. doi: 10.1002/ohn.1344.
78. Pereira MP, Steinke S, Zeidler C, et al. European academy of dermatology and venereology European prurigo project: expert consensus on the definition, classification and terminology of chronic prurigo. *J Eur Acad Dermatol Venereol*. 2018 Jul;32(7):1059-1065. doi: 10.1111/jdv.14570. Epub 2017 Sep 22.
79. Rabe KF, Nair P, Brusselle G, et al. Efficacy and safety of dupilumab in glucocorticoid-dependent severe asthma. *N Engl J Med*. 2018;378(26):2475-2485.
80. Rank MA, Chu DK, Bognanni A, et al. The Joint Task Force on Practice Parameters GRADE guidelines for the medical management of chronic rhinosinusitis with nasal polyposis. *J Allergy Clin Immunol*. 2023 Feb;151(2):386-398. doi: 10.1016/j.jaci.2022.10.026. Epub 2022 Nov 9.
81. Rank MA, Sharaf RN, Furuta GT, et al. Technical review on the management of eosinophilic esophagitis: a report from the AGA institute and the joint task force on allergy-immunology practice parameters. *Ann Allergy Asthma Immunol*. 2020;124(5):424-440.e17.[PubMed 32336463]
82. Rothenberg ME, Dellon ES, Collins MH, et al. Efficacy and safety of dupilumab up to 52 weeks in adults and adolescents with eosinophilic oesophagitis (LIBERTY EoE TREET study): a multicentre, double-blind, randomised, placebo-controlled, phase 3 trial. *Lancet Gastroenterol Hepatol*. 2023 Nov;8(11):990-1004. doi: 10.1016/S2468-1253(23)00204-2. Epub 2023 Aug 31.
83. Rubinstein E, Lee JJ, Fried A, et al. Comparison of 2 delivery vehicles for viscous budesonide to treat eosinophilic esophagitis in children. *J Pediatr Gastroenterol Nutr*. 2014;59(3):317-320.[PubMed 24821535]
84. Sidbury R, Alikhan A, Bercovitch L, et al. Guidelines for care for the management of atopic dermatitis in adults with topical therapies. *J Am Acad Dermatol*. 2023 Jul;89(1): e1-e20. doi:10.1016/j.jaad/2022.12.029. Epub 2023 Jan 12.
85. Simpson EL, Bieber T, Guttman-Yassky E, et al. Two phase 3 trials of dupilumab versus placebo in atopic dermatitis. *N Engl J Med*. 2016;375:2335-2348.
86. Simpson EL, Silverberg JI, Worm M, et al. Dupilumab treatment improves signs, symptoms, quality of life, and work productivity in patients with atopic hand and foot dermatitis: Results from a phase 3, randomized, double-blind, placebo-controlled trial. *J Am Acad Dermatol*. 2024 Jun;90(6):1190-1199. doi: 10.1016/j.jaad.2023.12.066. Epub 2024 Feb 1.

87. Sroka-Tomaszewska J, Trzeciak M. Molecular Mechanisms of Atopic Dermatitis Pathogenesis. *Int J Mol Sci.* 2021 Apr 16;22(8):4130. doi: 10.3390/ijms22084130.
88. Ständer S. Atopic Dermatitis. *N Engl J Med.* 2021 Mar 25;384(12):1136-1143. doi: 10.1056/NEJMra2023911. PMID: 33761208.
89. Thaçi D, L Simpson E, Deleuran M, et al. Efficacy and safety of dupilumab monotherapy in adults with moderate-to-severe atopic dermatitis: a pooled analysis of two phase 3 randomized trials (LIBERTY AD SOLO 1 and LIBERTY AD SOLO 2). *J Dermatol Sci.* 2019 May;94(2):266-275. doi: 10.1016/j.jdermsci.2019.02.002. Epub 2019 Mar 12.
90. Tadicherla S, Ross K, Shenefelt PD, et al. Topical corticosteroids in dermatology. *J Drugs Dermatol* 2009;8:1093.
91. Wang SH, Shan Y, Li SZ, Zuo YG. Anti-interleukin 4 receptor  $\alpha$  antibody for the treatment of Chinese bullous pemphigoid patients with diverse comorbidities and a 1-year follow-up: a monocentric real-world study. *Front Immunol.* 2023 Jul 20;14:1165106. doi: 10.3389/fimmu.2023.1165106.
92. Wenzel S, Castro M, Corren J, et al. Dupilumab efficacy and safety in adults with uncontrolled persistent asthma despite use of medium-to-high-dose inhaled corticosteroids plus a long-acting  $\beta$ 2 agonist: a randomised double-blind placebo-controlled pivotal phase 2b dose-ranging trial. *Lancet.* 2016 Jul 2;388(10039):31-44. doi: 10.1016/S0140-6736(16)30307-5. Epub 2016 Apr 27.
93. Wollenberg A, Christen-Zäch S, Taieb A, et al. ETFAD/EADV Eczema task force 2020 position paper on diagnosis and treatment of atopic dermatitis in adults and children. *J Eur Acad Dermatol Venereol.* 2020 Dec;34(12):2717-2744.
94. Wollenberg A, Kinberger M, Arents B, et al. European guideline (EuroGuiDerm) on Atopic eczema: part I - systemic therapy. *J Eur Acad Dermatol Venereol.* 2022 Sep;36(9):1409-1431. doi:10.1111/jdv.18345.
95. Wong, I. T., Tsuyuki, R. T., Cresswell-Melville, A., Doiron, P., & Drucker, A. M. (2017). Guidelines for the management of atopic dermatitis (eczema) for pharmacists. *Canadian Pharmacists Journal/Revue des Pharmaciens du Canada*, 150(5), 285-297.
96. Worm M, Simpson EL, Thaçi D, et al. Efficacy and Safety of Multiple Dupilumab Dose Regimens After Initial Successful Treatment in Patients With Atopic Dermatitis: A Randomized Clinical Trial. *JAMA Dermatol.* 2020 Feb 1;156(2):131-143. doi: 10.1001/jamadermatol.2019.3617.
97. Yew, Y. W., Thyssen, J. P., & Silverberg, J. I. (2019). A systematic review and meta-analysis of the regional and age-related differences in atopic dermatitis clinical characteristics. *Journal of the American Academy of Dermatology*, 80(2), 390-401.
98. Yosipovitch G, Kim BS, Kwatra SG, et al. Dupilumab improves pruritus and skin lesions in patients with prurigo nodularis: Pooled results from 2 phase 3 trials (LIBERTY-PN PRIME and PRIME2). *JAAD Int.* 2024 Apr 10;16:163-174. doi: 10.1016/j.jdin.2024.03.025.
99. Yosipovitch G, Mollanazar N, Ständer S, et al. Dupilumab in patients with prurigo nodularis: two randomized, double-blind, placebo-controlled phase 3 trials. *Nat Med.* 2023 May;29(5):1180-1190. doi: 10.1038/s41591-023-02320-9. Epub 2023 May 4.
100. Zheng Y, Ding RL, Bu J. Effectiveness and safety of systemic therapy for moderate-to-severe atopic dermatitis in children and adolescent patients: a systematic review. *Front Immunol.* 2024 May 15;15:1367099. doi:10.3389/fimmu/2024.1367099.
101. Zuberbier T, Abdul Latiff AH, Abuzakouk M, et al. The international EAACI/GA2LEN/EuroGuiDerm/APAAACI guideline for the definition, classification, diagnosis, and management of urticaria. *Allergy.* 2022;73:734-766.

Appendix A

Table 3: Dupixent (dupilumab) Dosage and Retreatment Information

Indication	Body Weight or Age Group	Initial Dose	Subsequent Dose
<b>Allergic Fungal Rhinosinusitis</b>			
Allergic Fungal Rhinosinusitis (pediatrics: age 6 to 17 years)	15 to less than 30 kg	300 mg (one 300 mg injection) every 4 weeks	
Allergic Fungal Rhinosinusitis (pediatrics: age 6 to 17 years)	30 to less than 60 kg	200 mg (one 200 mg injection) every 2 weeks	
Allergic Fungal Rhinosinusitis (pediatrics: age 6 to 17 years)	60 kg or more	300 mg (one 300 mg injection) every 2 weeks	
Allergic Fungal Rhinosinusitis (adult)	N/A	300 mg (one 300 mg injection) every 2 weeks	
<b>Atopic Dermatitis</b>			
Atopic Dermatitis (pediatric: age 6 months to 5 years)	5 to less than 15 kg	200 mg (one 200 mg injection) every 4 weeks	
Atopic Dermatitis (pediatric: age 6 months to 5 years)	15 to less than 30 kg	300 mg (one 300 mg injection) every 4 weeks	
Atopic Dermatitis (pediatric: age 6 to 17 years)	15 to less than 30 kg	600 mg (two 300 mg injections)	300 mg every 4 weeks
Atopic Dermatitis (pediatric: age 6 to 17 years)	30 to less than 60 kg	400 mg (two 200 mg injections)	200 mg every 2 weeks
Atopic Dermatitis (pediatric: age 6 to 17 years)	60 kg or more	600 mg (two 300 mg injections)	300 mg every 2 weeks
Atopic Dermatitis (adult)	N/A	600 mg (two 300 mg injections)	300 mg every 2 weeks
<b>Asthma</b>			

Indication	Body Weight or Age Group	Initial Dose	Subsequent Dose
Asthma (pediatric: age 6 to 11 years)	15 to less than 30 kg		
		300 mg (one 300 mg injection) every 4 weeks	
Asthma (pediatric: age 6 to 11 years)	≥30 kg	200 mg (one 200 mg injection) every 2 weeks	
Asthma (age 12 years or greater)	N/A	400 mg (two 200 mg injections)	200 mg every 2 weeks
		600 mg (two 300 mg injections)	300 mg every 2 weeks
Asthma (oral corticosteroid-dependent, or with co-morbid moderate-to-severe atopic dermatitis, or adults with co-morbid chronic rhinosinusitis with nasal polyposis)	Ages 12 years and older		
	Ages 6 to 11 years weighing ≥ 60 kg	600 mg (two 300 mg injections)	300 mg every 2 weeks
	Ages 6 to 11 years weighing 30 to less than 60 kg	400 mg (two 200 mg injections)	200 mg every 2 weeks
	Ages 6 to 11 years weighing 15 to less than 30 kg	600 mg (two 300 mg injections)	300 mg every 4 weeks
<b>Bullous Pemphigoid</b>			
Bullous pemphigoid	N/A	600 mg (two 300 mg injections)	300 mg every 2 weeks
<b>Chronic rhinosinusitis with nasal polyposis (CRSwNP)</b>			
Chronic rhinosinusitis with nasal polyposis (CRSwNP)	N/A	300 mg (one 300 mg injection) every 2 weeks	
<b>Chronic Obstructive Pulmonary Disease (COPD)</b>			

Indication	Body Weight or Age Group	Initial Dose	Subsequent Dose
Chronic Obstructive Pulmonary Disease (COPD)	N/A	300 mg (one 300 mg injection) every 2 weeks	
Chronic Spontaneous Urticaria (CSU)			
Chronic Spontaneous Urticaria (CSU) (pediatric: age 12 to 17 years)	30 to less than 60 kg	400 mg (two 200 mg injections)	200 mg every 2 weeks
Chronic Spontaneous Urticaria (CSU) (pediatric: age 12 to 17 years)	≥60 kg	600 mg (two 300 mg injections)	300 mg every 2 weeks
Chronic Spontaneous Urticaria (CSU) (18 years or greater)	N/A	600 mg (two 300 mg injections)	300 mg given every 2 weeks
Eosinophilic Esophagitis			
Eosinophilic esophagitis	15 to less than 30 kg	200 mg (one 200 mg injection) every 2 weeks	
Eosinophilic esophagitis	30 to less than 40 kg	300 mg (one 300 mg injection) every 2 weeks	
Eosinophilic esophagitis	≥40 kg	300 mg (one 300 mg injection) every week	
Prurigo Nodularis			
Prurigo Nodularis	N/A	600 mg (two 300 mg injections)	300 mg every 2 weeks

Appendix B

Table 4: Topical Corticosteroid Potency

*NOTE: The following chart is only for approximate comparative purposes. Please check product-specific information to best assess product potency, which can also be affected by a multitude of factors (e.g., formulation, site of application, member and disease-specific factors)*

Group	Potency	Steroid	Strength	Dosage Form
I	Very High	Betamethasone dipropionate (augmented)	0.05%	Gel, Lotion, and Ointment
		Clobetasol propionate	0.05%	Cream, Emollient Cream, Foam, Gel, Lotion, Ointment, Shampoo, Spray, and Solution
		Diflorasone diacetate	0.05%	Ointment
		Fluocinonide	0.1%	Cream
		Flurandrenolide	0.05%	Tape
		Halobetasol propionate	0.05% and 0.01%	Cream, Foam, Lotion and Ointment
II	High	Amcinonide	0.1%	Ointment
		Betamethasone dipropionate (augmented)	0.05%	Cream
		Betamethasone dipropionate	0.05%	Ointment
		Clobetasol propionate	0.025%	Cream
		Desoximetasone	0.25%	Cream, Ointment, and Spray
		Desoximetasone	0.05%	Gel
		Diflorasone diacetate	0.05%	Cream, Emollient Cream, and Ointment
		Fluocinonide	0.05%	Cream, Gel, Ointment, and Solution
		Halcinonide	0.1%	Cream, Ointment, and Solution

Group	Potency	Steroid	Strength	Dosage Form
		Halobetasol propionate	0.01%	Lotion
III	Upper Medium	Amcinonide	0.1%	Cream and Lotion
		Betamethasone dipropionate	0.05%	Cream
		Betamethasone valerate	0.12%	Foam
		Betamethasone valerate	0.1%	Ointment
		Desoximetasone	0.05%	Cream and Ointment
		Fluocinonide	0.05%	Emollient Cream
		Fluticasone propionate	0.005%	Ointment
		Mometasone furoate	0.1%	Ointment
		Triamcinolone acetonide	0.5%	Cream and Ointment
IV	Medium	Betamethasone dipropionate	0.05%	Spray
		Clocortolone pivalate	0.1%	Cream
		Desoximetasone	0.05%	Cream and Ointment
		Fluocinolone acetonide	0.025%	Cream and Ointment
		Flurandrenolide	0.05%	Ointment
		Fluticasone propionate	0.05%	Cream
		Hydrocortisone valerate	0.2%	Ointment
		Mometasone furoate	0.1%	Cream, Lotion, and Solution

Group	Potency	Steroid	Strength	Dosage Form
		Triamcinolone acetonide	0.1%	Cream, Dental Paste, Ointment, and Spray
V	Lower Medium	Betamethasone dipropionate	0.05%	Lotion
		Betamethasone valerate	0.1%	Cream
		Desonide	0.05%	Gel and Ointment
		Fluocinolone acetonide	0.025%	Cream
		Fluocinolone acetonide	0.01%	Shampoo
		Flurandrenolide	0.05%	Cream and Lotion
		Fluticasone propionate	0.05%	Lotion
		Hydrocortisone butyrate	0.1%	Cream, Lotion, Ointment, and Solution
		Hydrocortisone probutate	0.1%	Cream
		Hydrocortisone valerate	0.2%	Cream
		Prenicarbate	0.1%	Emollient Cream and Ointment
		Triamcinolone acetonide	0.1%	Lotion
		Triamcinolone acetonide	0.025%	Ointment
VI	Low	Alclometasone dipropionate	0.05%	Cream and Ointment
		Betamethasone valerate	0.1%	Lotion
		Desonide	0.05%	Cream, Lotion, and Foam
		Fluocinolone acetonide	0.01%	Cream, Oil, Shampoo and Solution
		Triamcinolone acetonide	0.025%	Cream and Lotion

Group	Potency	Steroid	Strength	Dosage Form
VII	Lowest	Hydrocortisone acetate	1% to 2.5%	Cream, Lotion, and Ointment
		Hydrocortisone base	0.5% to 2.5%	Cream, Gel, Liquid, Lotion, Ointment, Solution, and Spray

### Appendix C

Table 5: Nonsedating Second Generation H1 Antihistamines and Standard Therapeutic Dose

Drug	Standard Therapeutic Dose
cetirizine	10 mg once daily
levocetirizine	5 mg once daily
fexofenadine	180 mg once daily
loratadine	10 mg once daily
desloratadine	5 mg once daily

### Appendix D

Examples of Clinical Reasons to Avoid Pharmacologic Treatment with Methotrexate or Cyclosporine

- Clinical diagnosis of alcohol use disorder, alcoholic liver disease, or other chronic liver disease
- Drug interaction
- Risk of treatment-related toxicity
- Pregnancy or currently planning pregnancy
- Breastfeeding
- Significant comorbidity prohibits use of systemic agents (e.g., liver or kidney disease, blood dyscrasias, uncontrolled hypertension)
- Hypersensitivity
- History of intolerance or adverse event

### Clinical Guideline Revision / History Information

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