

## Clinical Policy: Alirocumab (Praluent)

Reference Number: PA.CHIP.PHAR.124

Effective Date: 01/2026

Last Review Date: 01/2026

### Description

Alirocumab (Praluent<sup>®</sup>) is a proprotein convertase subtilisin kexin type 9 (PCSK9) inhibitor antibody.

### FDA Approved Indication(s)

Praluent is indicated:

- To reduce the risk of major adverse cardiovascular (CV) events (coronary heart disease death, myocardial infarction, stroke, or unstable angina requiring hospitalization) in adults at increased risk for these events
- As an adjunct to diet and exercise to reduce low-density lipoprotein cholesterol (LDL-C) in:
  - adults with hypercholesterolemia
  - adults and pediatric patients aged 8 years and older with heterozygous familial hypercholesterolemia (HeFH)
  - adults with homozygous familial hypercholesterolemia (HoFH)

### Policy/Criteria

*Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.*

It is the policy of PA Health & Wellness<sup>®</sup> that Praluent is **medically necessary** when the following criteria are met:

#### I. Initial Approval Criteria

##### A. Primary Hypercholesterolemia (including HeFH) and Cardiovascular Event Risk Reduction (must meet all):

1. Diagnosis of one of the following (a, b, or c):
  - a. **HeFH**, and provider's attestation of both of the following (i and ii):
    - i. Baseline LDL-C (prior to any lipid-lowering pharmacologic therapy) was one of the following (1 or 2):
      1. If age < 20 years:  $\geq 160$  mg/dL;
      2. If age  $\geq 20$  years:  $\geq 190$  mg/dL;
    - ii. HeFH diagnosis is confirmed by one of the following (1 or 2):
      1. World Health Organization (WHO)/Dutch Lipid Network familial hypercholesterolemia diagnostic criteria score of  $> 8$  as determined by requesting provider (see Appendix D);
      2. Definite diagnosis per Simon Broome criteria (see Appendix D);
  - b. **Primary hypercholesterolemia that is not HeFH**, and both of the following (i and ii):
    - i. Provider's attestation of one of the following (1 or 2):
      1. Presence of a genetically mediated form of primary hypercholesterolemia as evidenced by confirmatory genetic testing results;
      2. A diagnosis of secondary hypercholesterolemia has been ruled out with absence of all of the following potential causes of elevated cholesterol (a – e):
        - a. Poor diet;
        - b. Hypothyroidism;
        - c. Obstructive liver disease;

- d. Renal disease;
    - e. Nephrosis;
  - ii. Provider's attestation that baseline LDL-C (prior to any lipid-lowering pharmacologic therapy) was  $\geq 190$  mg/dL;
- c. **Increased risk for CV events** as evidenced by provider's attestation of a history of **atherosclerotic cardiovascular disease (ASCVD)** including of any one of the following conditions (i-vii):
  - i. Acute coronary syndromes;
  - ii. Clinically significant coronary heart disease (CHD) diagnosed by invasive or noninvasive testing (such as coronary angiography, stress test using treadmill, stress echocardiography, or nuclear imaging);
  - iii. Coronary or other arterial revascularization;
  - iv. Myocardial infarction;
  - v. Peripheral arterial disease presumed to be of atherosclerotic origin;
  - vi. Stable or unstable angina;
  - vii. Stroke or transient ischemic attack (TIA);
- 2. Prescribed by or in consultation with a cardiologist, endocrinologist, or lipid specialist;
- 3. Age is one of the following (a or b):
  - a. If diagnosis is primary hypercholesterolemia (not including HeFH) or ASCVD:  $\geq 18$  years;
  - b. If diagnosis is HeFH:  $\geq 8$  years;
- 4. For members  $\geq 18$  years old on statin therapy, both of the following (a and b):
  - a. Praluent is prescribed in conjunction with a statin at the maximally tolerated dose;
  - b. Member has been adherent for at least the last 8 weeks to maximally tolerated doses of one of the following statin regimens (i or ii):
    - i. A high intensity statin (*see Appendix E*);
    - ii. A moderate or low intensity statin (*see Appendix E*), and member has one of the following (1 or 2):
      - 1. Previous use of one high-intensity statin (i.e., atorvastatin  $\geq 40$  mg daily; rosuvastatin  $\geq 20$  mg daily [as a single-entity or as a combination product]) for a minimum of 8 weeks continuously and LDL-C remained  $\geq 70$  mg/dL;
      - 2. Member has tried both rosuvastatin and atorvastatin and has experienced skeletal-muscle related symptoms on both agents which also resolved upon discontinuation;
- 5. For members  $\geq 18$  years old not on statin therapy, provider's attestation that member meets one of the following (a or b):
  - a. Statin therapy is contraindicated per Appendix F;
  - b. For members who are statin intolerant, both of the following (i and ii):
    - i. Member has tried at least two statins, one of which must be hydrophilic (pravastatin, fluvastatin, or rosuvastatin);
    - ii. Member meets one of the following (1 or 2):
      - 1. Member has statin risk factors (*see Appendix G*);
      - 2. Member is statin intolerant due to statin-associated muscle symptoms (SAMS) and meets both of the following (a and b):
        - a. Member had intolerable SAMS persisting at least two weeks, which disappeared with discontinuing the statin therapy and recurred with a statin re-challenge;
        - b. Previous re-challenge with titration from lowest possible dose and/or intermittent dosing frequency (e.g., 1 to 3 times weekly);
  - 6. Provider's attestation of recent (within the last 60 days) LDL-C of one of the following (a or b):

- a. If member has ASCVD (i or ii):
  - i.  $\geq 70$  mg/dL;
  - ii.  $\geq 55$  mg/dL, and member is at very high risk (see *Appendix I*);
- b. If member has severe primary hypercholesterolemia (including HeFH):  $\geq 100$  mg/dL;
- 7. Treatment plan does not include coadministration with Juxtapid<sup>®</sup>, Leqvio<sup>®</sup>, or Repatha<sup>®</sup>;
- 8. Dose does not exceed one of the following (a, b, or c):
  - a. Age  $\geq 18$  years: 75 mg every 2 weeks or 300 mg per month;
  - b. Age  $\geq 8$  years to  $< 18$  years and weight  $\geq 50$  kg: 300 mg every 4 weeks;
  - c. Age  $\geq 8$  years to  $< 18$  years and weight  $< 50$  kg: 150 mg every 4 weeks.

**Approval duration: 12 months**

**B. Homozygous Familial Hypercholesterolemia (must meet all):**

- 1. Diagnosis of HoFH;
- 2. Provider's attestation defined as one of the following (a, b, or c):
  - a. Genetic mutation indicating HoFH (e.g., mutations in low density lipoprotein receptor [LDLR] gene, PCSK9 gene, apo B gene, low density lipoprotein receptor adaptor protein 1[LDLRAP1] gene);
  - b. Treated LDL-C  $\geq 300$  mg/dL or non-HDL-C  $\geq 330$  mg/dL;
  - c. Untreated LDL-C  $\geq 400$  mg/dL, and one of the following (i or ii):
    - i. Tendinous or cutaneous xanthoma prior to age 10 years;
    - ii. Evidence of familial hypercholesterolemia (HeFH or HoFH) in at least one parent (e.g., documented history of elevated LDL-C  $\geq 190$  mg/dL prior to lipid-lowering therapy);
- 3. Prescribed by or in consultation with a cardiologist, endocrinologist, or lipid specialist;
- 4. Age  $\geq 18$  years, and provider's attestation of recent (within the last 60 days) LDL-C of one of the following (a or b):
  - a.  $\geq 70$  mg/dL;
  - b.  $\geq 55$  mg/dL if member has ASCVD and is at very high risk (see *Appendix I*);
- 5. For members on statin therapy, provider's attestation of both of the following (a and b):
  - a. Praluent is prescribed in conjunction with a statin at the maximally tolerated dose;
  - b. Member has been adherent for at least the last 8 weeks to maximally tolerated doses of one of the following statin regimens (i or ii):
    - i. A high intensity statin (see *Appendix E*);
    - ii. A moderate or low intensity statin (see *Appendix E*) and member has one of the following (1 or 2):
      - 1. Previous use of one high-intensity statin (i.e., atorvastatin  $\geq 40$  mg daily; rosuvastatin  $\geq 20$  mg daily [as a single-entity or as a combination product]) for a minimum of 8 weeks continuously and LDL-C remained  $\geq 70$  mg/dL;
      - 2. Member has tried both rosuvastatin and atorvastatin and has experienced skeletal-muscle related symptoms on both agents which also resolved upon discontinuation;
- 6. For members not on statin therapy, provider's attestation that member meets one of the following (a or b):
  - a. Statin therapy is contraindicated per *Appendix F*;
  - b. For members who are statin intolerant, both of the following (i and ii):
    - i. Member has tried at least two statins, one of which must be hydrophilic (pravastatin, fluvastatin, or rosuvastatin);
    - ii. Member meets one of the following (1 or 2):
      - 1. Member has statin risk factors (see *Appendix G*);

2. Member is statin intolerant due to statin-associated muscle symptoms (SAMS) and meets both of the following (a and b):
  - a. Member had intolerable SAMS persisting at least two weeks, which disappeared with discontinuing the statin therapy and recurred with a statin re-challenge;
  - b. Previous re-challenge with titration from lowest possible dose and/or intermittent dosing frequency (e.g., 1 to 3 times weekly);
6. For members  $\geq 18$  years old and not on statin therapy, provider's attestation that member meets one of the following (a or b):
  - a. Statin therapy is contraindicated per Appendix F;
  - b. For members who are statin intolerant, both of the following (i and ii):
    - i. Member has tried at least two statins, one of which must be hydrophilic (pravastatin, fluvastatin, or rosuvastatin);
    - ii. Member meets one of the following (1 or 2):
      1. Member has statin risk factors (see Appendix G);
      2. Member is statin intolerant due to statin-associated muscle symptoms (SAMS) and meets both of the following (a and b):
        - a. Member had intolerable SAMS persisting at least two weeks, which disappeared with discontinuing the statin therapy and recurred with a statin re-challenge;
        - b. Previous re-challenge with titration from lowest possible dose and/or intermittent dosing frequency (e.g., 1 to 3 times weekly);
  7. Treatment plan does not include coadministration with Leqvo, Juxtapid or Repatha;
  8. Dose does not exceed 150 mg every 2 weeks.

**Approval duration: 6 months or to the member's renewal date**

#### **C. Other diagnoses/indications**

1. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53

### **II. Continued Therapy**

**A. Primary Hyperlipidemia (including HeFH) and Atherosclerotic Cardiovascular Disease (must meet all):**

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies;
2. If statin tolerant, provider's attestation of adherence to a statin at the maximally tolerated dose;
3. Treatment plan does not include coadministration with Leqvo, Juxtapid or Repatha;
4. Member meets one of the following (a or b):
  - a. For age  $\geq 18$  years, one of the following (i or ii):
    - i. Request is for 75 mg every 2 weeks or 300 mg every month, and provider's attestation of lab results within the last 3 months are submitted showing an LDL-C reduction since initiation of Praluent therapy;
    - ii. Request is for 150 mg every 2 weeks, and one of the following (1 or 2):
      1. If request represents a new dose increase, member meets both (a and b):
        - a. Provider's attestation of adherence to Praluent and, if applicable, statin therapies;
        - b. Provider's attestation of lab results within the last 3 months are submitted showing an LDL-C  $> 70$  mg/dL after a minimum of 8 weeks of Praluent therapy at 75 mg;
      2. If request represents a continuation of Praluent 150 mg, provider's attestation of lab results within the last 3 months are submitted showing an LDL-C

reduction since initiation of the Praluent dose increase;

- b. For age  $\geq$  8 years to < 18 years, one of the following (i or ii):
  - i. For body weight  $\geq$  50 kg, one of the following (1 or 2):
    1. Request is for 300 mg every month, and provider's attestation of lab results within the last 3 months are submitted showing an LDL-C reduction since initiation of Praluent therapy;
    2. Request is for 150 mg every 2 weeks, and one of the following (a or b):
      - a. If request represents a new dose increase, member meets both (i and ii):
        - i. Provider's attestation of adherence to Praluent and, if applicable, statin therapies;
        - ii. Lab results within the last 3 months are submitted showing an LDL-C  $\geq$  110 mg/dL after a minimum of 8 weeks of Praluent therapy at 300 mg every month;
      - b. If request represents a continuation of Praluent 150 mg every 2 weeks, lab results within the last 3 months are submitted showing an LDL-C reduction since initiation of the Praluent frequency increase;
    - ii. For body weight < 50 kg, one of the following (1 or 2):
      1. Request is for 150 mg every 4 weeks, and provider's attestation of lab results within the last 3 months are submitted showing an LDL-C reduction since initiation of Praluent therapy;
      2. Request is for 75 mg every 2 weeks, and one of the following (a or b):
        - a. If request represents a new dose increase, member meets both (i and ii):
          - i. Provider's attestation of adherence to Praluent and, if applicable, statin therapies;
          - ii. Provider's attestation of lab results within the last 3 months are submitted showing an LDL-C  $\geq$  110 mg/dL after a minimum of 8 weeks of Praluent therapy at 150 mg every 4 weeks;
        - b. If request represents a continuation of Praluent 75 mg every 2 weeks, provider's attestation of lab results within the last 3 months are submitted showing an LDL-C reduction since initiation of the Praluent frequency increase.

**Approval duration: 6 months**

**B. Primary Hyperlipidemia (including HeFH) and Atherosclerotic Cardiovascular Disease (must meet all):**

- 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies;
- 2. If statin tolerant, provider's attestation of adherence to a statin at the maximally tolerated dose;
- 3. Member is responding positively to therapy as evidenced by provider's attestation of lab results within the last 3 months showing an LDL-C reduction since initiation of Praluent therapy;
- 4. Treatment plan does not include coadministration with Juxtapid, Leqvio, or Repatha;
- 5. If request is for a dose increase, new dose does not exceed 150 mg every 2 weeks.

**Approval duration: 6 months**

**C. Other diagnoses/indications (must meet 1 or 2):**

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies.

**Approval duration: Duration of request or 12 months (whichever is less); or**

2. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53

**III. Diagnoses/Indications for which coverage is NOT authorized:**

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – CP.PMN.53

**IV. Appendices/General Information**

*Appendix A: Abbreviation/Acronym Key*

ALT: alanine transaminase

apo B: apolipoprotein B

ASCVD: atherosclerotic cardiovascular disease

CHD: coronary heart disease

FDA: Food and Drug Administration

FH: familial hypercholesterolemia

HeFH: heterozygous familial hypercholesterolemia

HoFH: homozygous familial hypercholesterolemia

LDL-C: low density lipoprotein cholesterol

LDLR: low density lipoprotein receptor

PCSK9: proprotein convertase subtilisin

SAMS: statin-associated muscle symptoms

TIA: transient ischemic attack

WHO: World Health Organization

*Appendix B: Therapeutic Alternatives*

*This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent and may require prior authorization.*

| Drug Name                | Dosing Regimen   | Dose Limit/ Maximum Dose |
|--------------------------|------------------|--------------------------|
| atorvastatin (Lipitor®)  | 40 mg PO QD      | 80 mg/day                |
| rosuvastatin (Crestor®)  | 5 - 40 mg PO QD  | 40 mg/day                |
| pravastatin (Pravachol®) | 10 - 80 mg PO QD | 80 mg/day                |
| fluvastatin (Lescol®)    | 20 - 80 mg PO QD | 80 mg/day                |

*Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.*

*Appendix C: Contraindications/Boxed Warnings*

- Contraindication(s): history of serious hypersensitivity reaction to Praluent
- Boxed warning(s): none

*Appendix D: Criteria for Diagnosis of HeFH*

- Dutch Lipid Clinic Network criteria for Familial Hypercholesterolemia (FH)

| FH Criteria   | Points           | Member's Score†                            |
|---|------------------|--|
| <b>Family History</b>   |                  |  |
| First-degree relative with known premature* coronary and vascular disease                                     | 1                | Place highest score here (0, 1 or 2)       |
| First-degree relative with known LDL-C level above the 95 <sup>th</sup> percentile                            | 1                |  |
| First-degree relative with tendinous xanthomata and/or arcus cornealis  | 2                |  |
| Children aged < 18 years with LDL-C level above the 95 <sup>th</sup> percentile                               | 2                |  |
| <b>Clinical History</b>   |                  |  |
| Patient with premature* coronary artery disease   | 2                | Place highest score here (0, 1 or 2)       |
| Patient with premature* cerebral or peripheral vascular disease   | 1                |  |
| <b>Physical Examination</b>   |                  |  |
| Tendinous xanthomata  | 6                | Place highest score here (0, 4 or 6)       |
| Arcus cornealis prior to age 45 years   | 4                |  |
| <b>Cholesterol Levels - mg/dL (mmol/liter)</b>  |                  |  |
| LDL-C ≥ 330 mg/dL (≥ 8.5)   | 8                | Place highest score here (0, 1, 3, 5 or 8) |
| LDL-C 250 – 329 mg/dL (6.5 – 8.4)   | 5                |  |
| LDL-C 190 – 249 mg/dL (5.0 – 6.4)   | 3                |  |
| LDL-C 155 – 189 mg/dL (4.0 – 4.9)   | 1                |  |
| <b>DNA Analysis</b>   |                  |  |
| Functional mutation in the <i>low density lipoprotein receptor (LDLR)</i> , <i>apo B</i> or <i>PCSK9</i> gene | 8                | Place highest score here (0 or 8)          |
| <b>TOTAL SCORE</b>  | Definite FH: > 8 | Place score total here _____               |

\*Premature – men < 55 years or women < 60 years

†Choose the highest score from each of the five categories and then add together for a total score. The five categories are 1) Family History, 2) Clinical History, 3) Physical Examination, 4) Cholesterol Levels, and 5) DNA Analysis.

- Simon Broome Register Group Definition of Definite FH (meets 1 and 2):
  1. One of the following (a or b):
    - a. Total cholesterol level above 7.5 mmol/l (290 mg/dl) in adults or a total cholesterol level above 6.7 mmol/l (260 mg/dl) for children under 16;
    - b. LDL levels above 4.9 mmol/l (190 mg/dl) in adults (4.0 mmol/l in children) (either pre-treatment or highest on treatment);
  2. One of the following (a or b):
    - a. Tendinous xanthomas in patient or relative (parent, child, sibling, grandparent, aunt, uncle);
    - b. DNA-based evidence of an LDL receptor mutation or familial defective apo B- 100;
- High and Moderate Risk of ASCVD:
  - Patients with high risk of ASCVD include the following:
    - History of clinical atherosclerotic cardiovascular disease (as defined in section II)
    - Diabetes with an estimated 10-year ASCVD risk ≥ 7.5% for adults 40-75 years of age
    - Untreated LDL ≥ 190 mg/dL

## CLINICAL POLICY

### Alirocumab



- Patients with moderate risk of ASCVD include the following:
  - Diabetes with an estimated 10-year ASCVD risk < 7.5% for adults 40-75 years of age
  - Estimated 10-year ASCVD risk ≥ 5% for adults 40-75 years of age
- The calculator for the 10-year ASCVD risk estimator can be found here:  
<http://tools.cardiosource.org/ASCVD-Risk-Estimator>. Information needed to complete the ASCVD Risk Estimator include: gender, race (white, African American, other), systolic blood pressure, diabetes, age, total cholesterol, HDL-Cholesterol, treatment for hypertension, current smoker.

#### Appendix E: High and Moderate Intensity Daily Statin Therapy for Adults

| High Intensity Statin Therapy  |
|--|
| <b>Daily dose shown to lower LDL-C, on average, by approximately ≥ 50%</b>   |
| <ul style="list-style-type: none"><li>● Atorvastatin 40-80 mg</li><li>● Rosuvastatin 20-40 mg</li></ul>  |
| Moderate Intensity Statin Therapy  |
| <b>Daily dose shown to lower LDL-C, on average, by approximately 30% to 50%</b>  |
| <ul style="list-style-type: none"><li>● Atorvastatin 10-20 mg</li><li>● Fluvastatin XL 80 mg</li><li>● Fluvastatin 40 mg BID</li><li>● Lovastatin 40 mg</li><li>● Pitavastatin 1-4 mg</li><li>● Pravastatin 40-80 mg</li><li>● Rosuvastatin 5-10 mg</li><li>● Simvastatin 20-40 mg</li></ul> |
| Low Intensity Statin Therapy   |
| <b>Daily dose shown to lower LDL-C, on average, by &lt; 30%</b>  |
| <ul style="list-style-type: none"><li>● Simvastatin 10 mg</li><li>● Pravastatin 10-20 mg</li><li>● Lovastatin 20 mg</li><li>● Fluvastatin 20-40 mg</li></ul>   |

#### Appendix F: Statin Contraindications

| Statins  |
|--|
| <ul style="list-style-type: none"><li>● Decompensated liver disease (development of jaundice, ascites, variceal bleeding, encephalopathy)</li><li>● Laboratory-confirmed acute liver injury or rhabdomyolysis resulting from statin treatment</li><li>● Pregnancy*, actively trying to become pregnant, or nursing</li><li>● Immune-mediated hypersensitivity to the HMG-CoA reductase inhibitor drug class (statins) as evidenced by an allergic reaction occurring with at least TWO different statins</li></ul> |

\*In July 2021, the FDA requested removal of the contraindication against use of statins in pregnant women. Because the benefits of statins may include prevention of serious or potentially fatal events in a small group of very high-risk pregnant patients, contraindicating these drugs in all pregnant women is not appropriate. <https://www.fda.gov/safety/medical-product-safety-information/statins-drug-safety-communication-fda-requests-removal-strongest-warning-against-using-cholesterol>

#### Appendix G: Statin Risk Factors

| Statin Risk Factors |
|---------------------|
|---------------------|

- Multiple or serious comorbidities, including impaired renal or hepatic function
- Unexplained alanine transaminase (ALT) elevations > 3 times upper limit of normal, or active liver disease
- Concomitant use of drugs adversely affecting statin metabolism
- Age > 75 years, or history of hemorrhagic stroke
- Asian ancestry

*Appendix H: General Information*

- FDA Endocrinologic and Metabolic Drugs Advisory Committee briefing documents for another PCSK-9 inhibitor, Praluent, discuss the questionable determination of statin intolerance, stating: “many patients who are not able to take statins are not truly intolerant of the pharmacological class.”
- Patients should remain on concomitant therapy with a statin if tolerated due to the established long term cardiovascular benefits.
- Examples of genetically mediated primary hyperlipidemia include but are not limited to the following:
  - Familial hypercholesterolemia
  - Familial combined hyperlipidemia (FCHL)
  - Polygenic hypercholesterolemia
  - Familial dysbetalipoproteinemia
- The diagnosis of SAMS is often on the basis of clinical criteria. Typical SAMS include muscle pain and aching (myalgia), cramps, and weakness. Symptoms are usually bilateral and involve large muscle groups, including the thigh, buttock, back, and shoulder girdle musculature. In contrast, cramping is usually unilateral and may involve small muscles of the hands and feet. Symptoms may be more frequent in physically active patients. Symptoms often appear early after starting stain therapy or after an increase in dose and usually resolve or start to dissipate within weeks after cessation of therapy, although it may take several months for symptoms to totally resolve. Persistence of symptoms for more than 2 months after drug cessation should prompt a search for other causes or for underlying muscle disease possibly provoked by statin therapy. The reappearance of symptoms with statin rechallenge and their disappearance with drug cessation offers the best evidence that the symptoms are truly SAMS.
- Pravastatin, fluvastatin, and rosuvastatin are hydrophilic statins which have been reported to confer fewer adverse drug reactions than lipophilic statins.

*Appendix I: Criteria for Defining Patients at Very High Risk of Future ASCVD Events*<sup>2</sup> Very high risk is defined as having either a history of multiple major ASCVD events **OR** 1 major ASCVD event and multiple high-risk conditions:

- Major ASCVD events:
  - Recent acute coronary syndrome (within the past 12 months)
  - History of myocardial infarction (other than recent acute coronary syndrome event listed above)
  - History of ischemic stroke
  - Symptomatic peripheral artery disease (history of claudication with ankle-brachial index < 0.85 or previous revascularization or amputation)
- High-risk conditions:
  - Age  $\geq$  65 years
  - FH
  - History of prior coronary artery bypass surgery or percutaneous coronary intervention outside of the major ASCVD event(s)

- Diabetes
- Hypertension
- Chronic kidney disease (estimated glomerular filtration rate [eGFR] 15-59 mL/min/1.73 m<sup>2</sup>)
- Current tobacco smoking
- Persistently elevated LDL-C (LDL-C  $\geq$  100 mg/dL [ $\geq$  2.6 mmol/L]) despite maximally tolerated statin therapy and ezetimibe
- History of congestive heart failure

**V. Dosage and Administration**

| <b>Indication</b>                       | <b>Dosing Regimen</b>  | <b>Maximum Dose</b> |
|---|--|---------------------|
| Hypercholesterolemia with ASCVD         | <p>75 mg SC once every 2 weeks or 300 mg SC once every 4 weeks</p> <p>If response to 75 mg every 2 weeks or 300 mg every 4 weeks is inadequate, dose may be adjusted to 150 mg once every 2 weeks</p>  | 300 mg/month        |
| Primary hyperlipidemia (including HeFH) | <p><u>Adult:</u></p> <p>75 mg SC once every 2 weeks or 300 mg SC once every 4 weeks</p> <p>If response to 75 mg every 2 weeks or 300 mg every 4 weeks is inadequate, dose may be adjusted to 150 mg once every 2 weeks</p> <p><u>Pediatrics:</u></p> <p>Body weight <math>&lt;</math> 50 kg: 150 mg SC every 4 weeks</p> <p>If response is inadequate, dose may be adjusted to 75 mg every 2 weeks</p> <p>Body weight <math>\geq</math> 50 kg: 300 mg SC every 4 weeks</p> <p>If response is inadequate, dose may be adjusted to 150 mg every 2 weeks</p> <p><u>Pediatrics:</u></p> <p>Body weight <math>&lt;</math> 50 kg: 150 mg SC every 4 weeks</p> <p>If response is inadequate, dose may be adjusted to 75 mg every 2 weeks</p> <p>Body weight <math>\geq</math> 50 kg: 300 mg SC every 4 weeks</p> <p>If response is inadequate, dose may be adjusted to 150 mg every 2 weeks</p> | 300 mg/month        |

|                                     |                         |              |
|-------------------------------------|-------------------------|--------------|
| HoFH, HeFH undergoing LDL apheresis | 150 mg SC every 2 weeks | 300 mg/month |
|-------------------------------------|-------------------------|--------------|

## **VI. Product Availability**

Single-use pre-filled pens: 75 mg/mL, 150 mg/mL

## **V. References**

1. Praluent Prescribing Information. Tarrytown, NY: Regeneron Pharmaceuticals, Inc; March 2024. Available at: [https://www.regeneron.com/downloads/praluent\\_pi.pdf](https://www.regeneron.com/downloads/praluent_pi.pdf). Accessed November 1, 2024.
2. Blom DJ, Harada-Shiba M, Rubba P, et al. Efficacy and safety of alirocumab in adults with homozygous familial hypercholesterolemia: The ODYSSEY HoFH trial. *J Am Coll Cardiol.* 2020; 76(2): 131-142.

Guidelines

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### **Coding Implications**

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

| <b>HCPCS Codes</b> | <b>Description</b>                |
|--------------------|-----------------------------------|
| C9399              | Unclassified drugs or biologicals |
| J3590              | Unclassified biologics            |

| <b>Reviews, Revisions, and Approvals</b> | <b>Date</b> |
|--|-------------|
| Policy created                           | 09/2025     |