

## Clinical Policy: Alirocumab (Praluent)

Reference Number: CP.PHAR.124

Effective Date: 10.15

Last Review Date: 02.20

Line of Business: Commercial, Medicaid

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

### 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 myocardial infarction, stroke, and unstable angina requiring hospitalization in adults with established cardiovascular disease
- As an adjunct to diet, alone or in combination with other lipid-lowering therapies (e.g., statins, ezetimibe), for the treatment of adults with primary hyperlipidemia (including heterozygous familial hypercholesterolemia [HeFH]) to reduce low-density lipoprotein cholesterol (LDL-C)

### 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 health plans affiliated with Centene Corporation<sup>®</sup> that Praluent is **medically necessary** when the following criteria are met:

#### I. Initial Approval Criteria

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

1. Diagnosis of one of the following (a or b):
  - a. Primary hyperlipidemia with both of the following (i and ii) (note: these criteria in section I.A.1.a do not apply to HeFH. Refer to section I.A.2 below for coverage criteria for HeFH);
    - i. Documentation of one of the following (a or b):
      - a) Presence of a genetically mediated form of primary hyperlipidemia as evidenced by confirmatory genetic testing results;
      - b) A diagnosis of secondary hyperlipidemia has been ruled out with absence of all of the following potential causes of elevated cholesterol (a-f):
        - a) Poor diet;
        - b) Hypothyroidism;
        - c) Obstructive liver disease;
        - d) Renal disease;
        - e) Nephrosis;

- f) Medications that have had a clinically relevant contributory effect on the current degree of this member's elevated lipid levels including, but not limited to: glucocorticoids, sex hormones, antipsychotics, antiretrovirals, immunosuppressive agents, retinoic acid derivatives;
    - ii. Baseline LDL-C (prior to any lipid-lowering pharmacologic therapy) was one of the following (a or b):
      - a)  $\geq 190$  mg/dL for genetically mediated primary hyperlipidemias;
      - b)  $\geq 220$  mg/dL for non-genetically mediated primary hyperlipidemias;
  - b. Atherosclerotic cardiovascular disease (ASCVD) as evidenced by a history 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. For members with HeFH, both of the following are met (a and b):
  - a. Baseline LDL-C (prior to any lipid-lowering pharmacologic therapy) was  $\geq 190$  mg/dL;
  - b. HeFH diagnosis is confirmed by one of the following (i or ii):
    - i. World Health Organization (WHO)/Dutch Lipid Network familial hypercholesterolemia diagnostic criteria score of  $> 8$  as determined by requesting provider (see *Appendix D*);
    - ii. Definite diagnosis per Simon Broome criteria (see *Appendix D*);
3. Member does not have a diagnosis of homozygous familial hypercholesterolemia (HoFH);
4. Prescribed by or in consultation with a cardiologist, endocrinologist or lipid specialist;
5. Age  $\geq 18$  years;
6. For members 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 4 months to maximally tolerated doses of one of the following statin regimens (i, ii, or iii):
    - i. A high intensity statin (see *Appendix E*);
    - ii. A moderate intensity statin (see *Appendix E*) and member has one of the following (a or b):
      - a) Intolerance to two high intensity statins;
      - b) A statin risk factor (see *Appendix G*);
    - iii. A low intensity statin and member has one of the following (a or b):
      - a) Intolerance to one high and one moderate intensity statins;
      - b) A statin risk factor (see *Appendix G*) and history of intolerance to two moderate intensity statins;
7. For members not on statin therapy, member meets one of the following (a or b):

- a. Statin therapy is contraindicated per Appendix F;
- b. For members who are statin intolerant, member has tried at least two statins, 1 of which must be hydrophilic statins (pravastatin, fluvastatin, or rosuvastatin), and member meets one of the following (i or ii):
  - i. Member has documented statin risk factors (see *Appendix G*);
  - ii. Member is statin intolerant due to statin-associated muscle symptoms (SAMS) and meets both of the following (a and b):
    - a) Documentation of intolerable SAMS persisting at least two weeks, which disappeared with discontinuing the statin therapy and recurred with a statin re-challenge;
    - b) Documentation of re-challenge with titration from lowest possible dose and/or intermittent dosing frequency (e.g., 1 to 3 times weekly);
8. Member has been adherent to ezetimibe therapy used concomitantly with a statin at the maximally tolerated dose for at least the last 4 months, unless contraindicated per Appendix F or member has a history of ezetimibe intolerance (e.g., associated diarrhea or upper respiratory tract infection);
9. Documentation of recent (within the last 60 days) LDL-C of one of the following (a, b, or c):
  - a.  $\geq 70$  mg/dL for ASCVD;
  - b.  $\geq 100$  mg/dL for genetically mediated severe primary hyperlipidemia (including HeFH);
  - c.  $\geq 130$  mg/dL for non-genetically mediated severe primary hypercholesterolemia;
10. Treatment plan does not include coadministration with Juxtapid<sup>®</sup>, Kynamro<sup>®</sup>, Repatha<sup>®</sup>;
11. Dose does not exceed 75 mg every 2 weeks or 300 mg per month.

**Approval duration:**

**Medicaid** – 3 months

**Commercial** – 6 months or to the member’s renewal date, whichever is longer

**B. Other diagnoses/indications**

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.CPA.09 for commercial and CP.PMN.53 for Medicaid.

**II. Continued Therapy**

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

1. Currently receiving medication via Centene benefit or member has previously met all initial approval criteria;
2. If statin tolerant, documentation of adherence to a statin at the maximally tolerated dose;
3. Member meets one of the following (a or b):
  - a. Request is for 75 mg every 2 weeks or 300 mg every month and lab results within the last 3 months are submitted showing an LDL-C reduction since initiation of Praluent therapy;
  - b. Request is for 150 mg every 2 weeks and one of the following (i or ii):

- i. If request represents a new dose increase, member has demonstrated adherence to Praluent and, if applicable, ezetimibe and/or statin therapies and 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;
- ii. If request represents a continuation of Praluent 150 mg, lab results within the last 3 months are submitted showing an LDL-C reduction since initiation of the Praluent dose increase.

**Approval duration:**

**Medicaid** – 12 months (*3 months if request is for dose increase*)

**Commercial** – 6 months or to the member’s renewal date, whichever is longer

**B. Other diagnoses/indications (1 or 2):**

1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.

**Approval duration: Duration of request or 6 months (whichever is less); or**

2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.CPA.09 for commercial and CP.PMN.53 for Medicaid.

**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.CPA.09 for commercial and CP.PMN.53 for Medicaid or evidence of coverage documents;
- B. HoFH.

**IV. Appendices/General Information**

*Appendix A: Abbreviation/Acronym Key*

ALT: Alanine transaminase	HoFH: homozygous familial hypercholesterolemia
apo B: apolipoprotein B	LDL-C: low density lipoprotein cholesterol
ASCVD: atherosclerotic cardiovascular disease	LDLR: low density lipoprotein receptor
CHD: coronary heart disease	PCSK9: proprotein convertase subtilisin kexin 9
FDA: Food and Drug Administration	SAMS: statin-associated muscle symptoms
FH: familial hypercholesterolemia	TIA: transient ischemic attack
HeFH: heterozygous familial hypercholesterolemia	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 for all relevant lines of business and may require prior authorization.*

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
ezetimibe/ simvastatin (Vytorin <sup>®</sup> )	10/40 mg PO QD	10 mg-40 mg/day (Use of the 10/80 mg dose is restricted to patients who have been taking simvastatin 80 mg for 12 months or more without evidence of muscle toxicity)
ezetimibe (Zetia <sup>®</sup> )	10 mg PO QD	10 mg/day
atorvastatin (Lipitor <sup>®</sup> )	40 mg PO QD	80 mg/day
rosuvastatin (Crestor <sup>®</sup> )	5 to 40 mg PO QD	40 mg/day

Therapeutic alternatives are listed as Brand name<sup>®</sup> (generic) when the drug is available by brand name only and generic (Brand name<sup>®</sup>) 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)

FH Criteria	Points	Member's Score†
<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  $\geq 7.5\%$  for adults 40-75 years of age
    - Untreated LDL  $\geq 190$  mg/dL
  - 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  $\geq 5\%$  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*

<b>High Intensity Statin Therapy</b> <i>Daily dose shown to lower LDL-C, on average, by approximately <math>\geq 50\%</math></i>
<ul style="list-style-type: none"> <li>• Atorvastatin 40-80 mg</li> <li>• Rosuvastatin 20-40 mg</li> </ul>
<b>Moderate Intensity Statin Therapy</b> <i>Daily dose shown to lower LDL-C, on average, by approximately 30% to 50%</i>
<ul style="list-style-type: none"> <li>• Atorvastatin 10-20mg</li> <li>• Fluvastatin XL 80 mg</li> <li>• Fluvastatin 40 mg BID</li> <li>• Lovastatin 40 mg</li> </ul>

<p><b>High Intensity Statin Therapy</b> <i>Daily dose shown to lower LDL-C, on average, by approximately <math>\geq 50\%</math></i></p> <ul style="list-style-type: none"> <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>
<p><b>Low Intensity Statin Therapy</b> <i>Daily dose shown to lower LDL-C, on average, by <math>&lt; 30\%</math></i></p> <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 and Ezetimibe Contraindications*

<p><b>Statins</b></p> <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>
<p><b>Ezetimibe</b></p> <ul style="list-style-type: none"> <li>• Moderate or severe hepatic impairment [Child-Pugh classes B and C]</li> <li>• Hypersensitivity to ezetimibe (e.g., anaphylaxis, angioedema, rash, urticaria)</li> </ul>

*Appendix G: Statin Risk Factors*

<p><b>Statin Risk Factors</b></p> <ul style="list-style-type: none"> <li>• Multiple or serious comorbidities, including impaired renal or hepatic function</li> <li>• Unexplained alanine transaminase (ALT) elevations <math>&gt; 3</math> times upper limit of normal, or active liver disease</li> <li>• Concomitant use of drugs adversely affecting statin metabolism</li> <li>• Age <math>&gt; 75</math> years, or history of hemorrhagic stroke</li> <li>• Asian ancestry</li> </ul>
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*Appendix H: General Information*

- FDA Endocrinologic and Metabolic Drugs Advisory Committee briefing documents for 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 statin 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.

**V. Dosage and Administration**

Indication	Dosing Regimen	Maximum Dose
Primary hyperlipidemia (including HeFH) or hypercholesterolemia with ASCVD	75 mg SC once every 2 weeks or 300 mg SC once every 4 weeks  If response to 75 mg every 2 weeks or 300 mg every 4 weeks is inadequate, dose may be increased to 150 mg once every 2 weeks.	300 mg/month
HeFH undergoing LDL apheresis	150 mg SC every 2 weeks	300 mg/month

**VI. Product Availability**

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

**VII. References**

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- Foundation/American Heart Association Task Force on Clinical Practice Guidelines. *J Am Coll Cardiol* 2018;Nov 10:[Epub ahead of print].
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Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created.	09.15	10.15
Converted policy to new template. Added examples of Zetia intolerance. Incorporated ASCVD and therapeutic lifestyle changes appendices into the criteria. Combined Zetia and statin contraindications (App D) and added nursing as a contraindication. Statin risk factors are listed at App E. Added scoring instructions to the Dutch criteria appendix. Modified renewal duration to 12 months. Added requirement for the use of statin and Zetia therapy for the last 4 months.	10.16	10.16

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Modified the definition of ASCVD to include history of nonhemorrhagic stroke or transient ischemic attack. Safety criteria was applied according to the safety guidance discussed at CPAC and endorsed by Centene Medical Affairs.	09.17	10.17
3Q 2018 annual review: combined policies for Medicaid and Commercial lines of business; added a separate requirement to check for continued statin use and adherence at reauthorization; Medicaid: aligned definition of ASCVD with commercial by addition of acute coronary syndrome and clinically significant CHD; aligned trial of Zetia language with commercial by requiring concomitant statin; added hydrophilic statin with intermittent dosing requirement; Commercial: aligned definition of ASCVD with Medicaid with removal of carotid artery occlusion and renal artery stenosis/stent; lowered minimum LDL value required for initial approval from 100 mg/dL to 70 mg/dL; references reviewed and updated.	05.22.18	08.18
1Q 2019 annual review: no significant changes; references reviewed and updated.	11.20.18	02.19
Criteria updated to include new FDA indication: primary hyperlipidemia (including but not limited to HeFH); FDA indication section updated to include new indication to reduce the risk of myocardial infarction, stroke, and unstable angina requiring hospitalization in adults with established cardiovascular disease (note: no change to existing policy for this patient population); concomitant statin usage section modified to more clearly delineate between patients who are currently on statin therapy vs. those who are not, and for the latter, to require documentation of a prior trial of four statins (vs. just two) with documentation of statin risk factors or intolerance; criteria for statin-rechallenge in the setting of SAMS are added; references reviewed and updated.	07.23.19	08.19
1Q 2020 annual review: removed the requirement for explicit documentation of rule out of secondary causes of hyperlipidemia; clarified the requirement for ruling out lipid-increasing medications as a secondary cause of hyperlipidemia, by specifying that the medication must be ruled out only if it has significantly increased the member's lipid levels; increased the timeframe for LDL-C lab draws from 30 days to 60 days; for members on a low intensity statin, modified requirement for statin intolerance to one high and one moderate intensity statins (previously required two of each); modified the requirement for four prior statin trials to two prior statin trials; Appendix E updated based on 2018 ACC/AHA guidelines; references reviewed and updated.	11.05.19	02.20

**Important Reminder**

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted

standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

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**Note: For Medicaid members**, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence.

Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

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