

Clinical Policy: Maralixibat (Livmarli)

Reference Number: CP.PHAR.543

Effective Date: 09.29.21

Last Review Date: 08.23

Line of Business: Commercial, HIM, Medicaid

[Revision Log](#)

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

Description

Maralixibat (Livmarli™) is an ileal bile acid transporter inhibitor (IBAT).

FDA Approved Indication(s)

Livmarli is indicated for the treatment of cholestatic pruritus in patients with:

- Alagille syndrome (ALGS) 3 months of age and older
- Progressive familial intrahepatic cholestasis (PFIC) 5 years of age and older

Limitation(s) of use: Livmarli is not recommended in a subgroup of PFIC type 2 with specific ABCB11 variants resulting in non-functional or complete absence of bile salt export pump (BSEP) protein.

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[®] that Livmarli is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria**A. Alagille Syndrome** (must meet all):

1. Diagnosis of ALGS-associated pruritus confirmed by one of the following (a or b):
 - a. Genetic confirmation with presence of a mutation in *JAG1* or *NOTCH2*;
 - b. Clinical confirmation of both of the following (i and ii):
 - i. Bile duct paucity on liver biopsy;
 - ii. Criteria meeting ≥ 3 of the 5 major classic criteria (see *Appendix D*);
2. Prescribed by or in consultation with hepatologist or gastroenterologist;
3. Age ≥ 3 months and ≤ 18 years at therapy initiation;
4. Pruritus requiring at least moderate scratching (e.g., ≥ 2 on 0-4 scale, see *Appendix E*);
5. Evidence of cholestasis that is met by ≥ 1 of the following (a – e):
 - a. Total serum bile acid > 3 times upper limit of normal (ULN) for age;
 - b. Conjugated bilirubin > 1 mg/dL;
 - c. Fat-soluble vitamin deficiency otherwise unexplainable;
 - d. Gamma-glutamyl transferase > 3 times ULN for age;
 - e. Intractable pruritus explainable only by liver disease;

6. Failure of ursodeoxycholic acid, unless contraindicated or clinically significant adverse effects are experienced;
**Prior authorization may be required for ursodeoxycholic acid*
7. Failure of an agent used for symptomatic relief of pruritus (e.g., antihistamine, rifampin, cholestyramine), unless clinically significant adverse effects are experienced or all are contraindicated;
8. Documentation of member's current body weight in kilograms (kg);
9. Dose does not exceed 380 mcg/kg per day, up to a maximum of 28.5 mg (3 mL) per day.

Approval duration: 6 months

B. Progressive Familial Intrahepatic Cholestasis (must meet all):

1. Diagnosis of genetically confirmed PFIC (formerly known as Byler disease or syndrome) with presence of both of the following (a and b);
 - a. Has moderate to severe pruritus (e.g., ≥ 2 on 0 to 4 scale);
 - b. Serum bile acid (sBA) levels > 3 times the upper limit of normal (ULN) for age;
2. Prescribed by or in consultation with a hepatologist or gastroenterologist;
3. Age ≥ 5 years;
4. For PFIC type 2, member does not have ABCB11 gene variants resulting in non-functional or complete absence of the BSEP protein;
5. Failure of ursodeoxycholic acid, unless contraindicated or clinically significant adverse effects are experienced;
**Prior authorization may be required for ursodeoxycholic acid*
6. Failure of an agent used for symptomatic relief of pruritus (e.g., antihistamine, rifampin, cholestyramine), unless clinically significant adverse effects are experienced or all are contraindicated;
7. Livmarli is not prescribed concurrently with other IBAT inhibitors (e.g., Bylvay[™]);
8. Documentation of member's current body weight in kg;
9. Dose does not exceed 1,140 mcg/kg per day, up to a maximum of 38 mg (4 mL) per day.

Approval duration: 6 months

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

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
 - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or
 - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.103 for health insurance marketplace, and CP.PMN.16 for Medicaid; or
2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line

of business: CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Alagille Syndrome (must meet all):

1. Member meets one of the following (a or b):
 - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
 - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member is responding positively to therapy as evidenced by an improvement in pruritus;
3. Documentation of member's current body weight in kg;
4. If request is for a dose increase, new dose does not exceed 380 mcg/kg per day, up to a maximum of 28.5 mg (3 mL) per day.

Approval duration: 12 months

B. Progressive Familial Intrahepatic Cholestasis (must meet all):

1. Member meets one of the following (a or b):
 - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
 - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member is responding positively to therapy as evidenced by, including but not limited to, improvement in any of the following parameters:
 - a. Improvement in pruritis;
 - b. Reduction of sBA from baseline;
3. Documentation of member's current body weight in kg;
4. If request is for a dose increase, new dose does not exceed 1,140 mcg/kg per day, up to a maximum of 38 mg (4 mL) per day.

Approval duration: 12 months

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

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
 - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or
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2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, 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, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

ALGS: Alagille syndrome	PFIC: progressive familial intrahepatic cholestasis
BSEP: bile salt export pump	sBA: serum bile acid
FDA: Food and Drug Administration	ULN: upper limit of normal
IBAT: ileal bile acid transporter	
ItchRO: itch reported outcome	

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
ursodeoxycholic acid (Ursodiol [®])*	10-30 mg/kg/day PO	N/A
rifampin (Rifadin [®])*	10 mg/kg PO	10 mg/kg/day
cholestyramine*	4-16 g/day PO in 2 divided doses	16 g/day
antihistamine*	Varies	Varies

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.

**Off-label*

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): patients with prior or active hepatic decompensation events (e.g., variceal hemorrhage, ascites, hepatic encephalopathy)
- Boxed warning(s): none reported

Appendix D: Classic Criteria, Based on Five Body Systems, for a Diagnosis of ALGS

Classic Criteria	Description
Liver/cholestasis	Usually presenting as jaundice with conjugated hyperbilirubinaemia in the neonatal period, often with pale stools
Dysmorphic facies	Broad forehead, deep-set eyes, sometimes with upslanting palpebral fissures, prominent ears, straight nose with bulbous tip, and pointed chin giving the face a somewhat triangular appearance

Classic Criteria	Description
Heart disease	Most frequently peripheral pulmonary artery stenosis, but also pulmonary atresia, atrial septal defect, ventricular septal defect, and Tetralogy of Fallot
Axial skeleton/vertebral anomalies	Characteristic ‘butterfly’ vertebrae may be seen on an antero-posterior radiograph, and occasionally hemivertebrae, fusion of adjacent vertebrae, and spina bifida occulta
Eye/posterior embryotoxon	Anterior chamber defects, most commonly posterior embryotoxon, which is prominence of Schwalbe’s ring at the junction of the iris and cornea

Appendix E: Itch Reported Outcome (ItchRO) Scale for Pruritus

- Used to measure patients’ scratching as observed by their caregiver twice daily (once in the morning and once in the evening)
- Scratching was assessed on a 5-point scale (0-4):
 - 0: none
 - 1: mild
 - 2: moderate
 - 3: severe
 - 4: very severe

Appendix F: General Information

- Initial care for patients with PFIC targets symptoms and nutritional problems, including fat-soluble vitamin supplementation.
- Ursodiol is usually considered first line therapy for all PFIC types and has been proven to improve liver function and pruritus. Use of Ursodiol is supported by expert opinion; additionally, in the pivotal MARCH-PFIC study, 85% of placebo and 83% of Livmarli patients were already receiving Ursodiol.
- Off-label conventional treatment for PFIC pruritus includes antihistamines, rifampin, and cholestyramine. In the pivotal MARCH-PFIC study, 50% of placebo and 55% of Livmarli patients were already receiving rifampin.
- Other PFIC options include surgical options such as nasobiliary drainage, partial external biliary diversion, and liver transplant.
- Livmarli will not work on PFIC type 2 with ABCB11 variants that encode for absence of BSEP-3 since Livmarli acts on the bile acid transporter. Therefore, in patients missing the BSEP-3 transporter, Livmarli may not inhibit the bile salt export pump.

Appendix G: Genetic Confirmation of PFIC

	PFIC 1	PFIC 2	PFIC 3	PFIC 4	PFIC 5	PFIC 6	PFIC (no #)
Protein deficiency	FIC 1	BSEP	MDR3	TJP2	FXR	MYO5B	USP53
Mutated gene	ATP8B1	ATP8B11	ABCB4	TJP2	NR1H4	MYO5B	USP53

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose																																																											
ALGS	<p>Starting dose: 190 mcg/kg/day PO daily Maintenance: 380 mcg/kg/day PO daily</p> <table border="1" data-bbox="418 373 1157 1129"> <thead> <tr> <th colspan="5" data-bbox="418 373 1157 415">Individual dose volume by patient weight</th> </tr> <tr> <th data-bbox="418 415 548 489" rowspan="2">Patient Weight (kg)</th> <th colspan="2" data-bbox="548 415 846 489">Days 1-7 (190 mcg/kg QD)</th> <th colspan="2" data-bbox="846 415 1157 489">Beginning Day 8 (380 mcg/kg QD)</th> </tr> <tr> <th data-bbox="548 489 683 594">Volume QD (mL)</th> <th data-bbox="683 489 846 594">Dosing dispenser size (mL)</th> <th data-bbox="846 489 997 594">Volume QD (mL)</th> <th data-bbox="997 489 1157 594">Dosing dispenser size (mL)</th> </tr> </thead> <tbody> <tr> <td data-bbox="418 594 548 636">5-6</td> <td data-bbox="548 594 683 636">0.1</td> <td data-bbox="683 594 846 709" rowspan="4">0.5</td> <td data-bbox="846 594 997 636">0.2</td> <td data-bbox="997 594 1157 709" rowspan="3">0.5</td> </tr> <tr> <td data-bbox="418 636 548 678">7-9</td> <td data-bbox="548 636 683 678">0.15</td> <td data-bbox="846 636 997 678">0.3</td> </tr> <tr> <td data-bbox="418 678 548 720">10-12</td> <td data-bbox="548 678 683 720">0.2</td> <td data-bbox="846 678 997 720">0.45</td> </tr> <tr> <td data-bbox="418 720 548 762">13-15</td> <td data-bbox="548 720 683 762">0.3</td> <td data-bbox="846 720 997 762">0.6</td> <td data-bbox="997 709 1157 867" rowspan="4">1</td> </tr> <tr> <td data-bbox="418 762 548 804">16-19</td> <td data-bbox="548 762 683 804">0.35</td> <td data-bbox="846 762 997 804">0.7</td> </tr> <tr> <td data-bbox="418 804 548 846">20-24</td> <td data-bbox="548 804 683 846">0.45</td> <td data-bbox="846 804 997 846">0.9</td> </tr> <tr> <td data-bbox="418 846 548 888">25-29</td> <td data-bbox="548 846 683 888">0.5</td> <td data-bbox="846 846 997 888">1</td> </tr> <tr> <td data-bbox="418 888 548 930">30-34</td> <td data-bbox="548 888 683 930">0.6</td> <td data-bbox="683 867 846 1014" rowspan="4">1</td> <td data-bbox="846 888 997 930">1.25</td> <td data-bbox="997 867 1157 1129" rowspan="6">3</td> </tr> <tr> <td data-bbox="418 930 548 972">35-39</td> <td data-bbox="548 930 683 972">0.7</td> <td data-bbox="846 930 997 972">1.5</td> </tr> <tr> <td data-bbox="418 972 548 1014">40-49</td> <td data-bbox="548 972 683 1014">0.9</td> <td data-bbox="846 972 997 1014">1.75</td> </tr> <tr> <td data-bbox="418 1014 548 1056">50-59</td> <td data-bbox="548 1014 683 1056">1</td> <td data-bbox="846 1014 997 1056">2.25</td> </tr> <tr> <td data-bbox="418 1056 548 1098">60-69</td> <td data-bbox="548 1056 683 1098">1.25</td> <td data-bbox="683 1014 846 1129" rowspan="2">3</td> <td data-bbox="846 1056 997 1098">2.5</td> </tr> <tr> <td data-bbox="418 1098 548 1129">70 or higher</td> <td data-bbox="548 1098 683 1129">1.5</td> <td data-bbox="846 1098 997 1129">3</td> </tr> </tbody> </table>	Individual dose volume by patient weight					Patient Weight (kg)	Days 1-7 (190 mcg/kg QD)		Beginning Day 8 (380 mcg/kg QD)		Volume QD (mL)	Dosing dispenser size (mL)	Volume QD (mL)	Dosing dispenser size (mL)	5-6	0.1	0.5	0.2	0.5	7-9	0.15	0.3	10-12	0.2	0.45	13-15	0.3	0.6	1	16-19	0.35	0.7	20-24	0.45	0.9	25-29	0.5	1	30-34	0.6	1	1.25	3	35-39	0.7	1.5	40-49	0.9	1.75	50-59	1	2.25	60-69	1.25	3	2.5	70 or higher	1.5	3	380 mcg/kg/day, up to a maximum of 28.5 mg/day (3 mL/day)
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PFIC	<p>Starting dose: 285 mcg/kg PO once daily Maintenance dose: dose should be increased to 285 mcg/kg PO twice daily, 428 mcg/kg PO twice daily, and then to 570 mcg/kg PO twice daily, as tolerated</p> <table border="1" data-bbox="418 1308 1157 1839"> <thead> <tr> <th colspan="4" data-bbox="418 1308 1157 1350">Volume per dose (mL) by patient weight</th> </tr> <tr> <th data-bbox="418 1350 605 1423">Patient weight (kg)</th> <th data-bbox="605 1350 792 1423">285 mcg/kg</th> <th data-bbox="792 1350 979 1423">428 mcg/kg</th> <th data-bbox="979 1350 1157 1423">570 mcg/kg</th> </tr> </thead> <tbody> <tr> <td data-bbox="418 1423 605 1465">10 to 12</td> <td data-bbox="605 1423 792 1465">0.35</td> <td data-bbox="792 1423 979 1465">0.5</td> <td data-bbox="979 1423 1157 1465">0.6</td> </tr> <tr> <td data-bbox="418 1465 605 1507">13 to 15</td> <td data-bbox="605 1465 792 1507">0.4</td> <td data-bbox="792 1465 979 1507">0.6</td> <td data-bbox="979 1465 1157 1507">0.8</td> </tr> <tr> <td data-bbox="418 1507 605 1549">16 to 19</td> <td data-bbox="605 1507 792 1549">0.5</td> <td data-bbox="792 1507 979 1549">0.8</td> <td data-bbox="979 1507 1157 1549">1</td> </tr> <tr> <td data-bbox="418 1549 605 1591">20 to 24</td> <td data-bbox="605 1549 792 1591">0.6</td> <td data-bbox="792 1549 979 1591">1</td> <td data-bbox="979 1549 1157 1591">1.25</td> </tr> <tr> <td data-bbox="418 1591 605 1633">25 to 29</td> <td data-bbox="605 1591 792 1633">0.8</td> <td data-bbox="792 1591 979 1633">1.25</td> <td data-bbox="979 1591 1157 1633">1.5</td> </tr> <tr> <td data-bbox="418 1633 605 1675">30 to 34</td> <td data-bbox="605 1633 792 1675">0.9</td> <td data-bbox="792 1633 979 1675">1.5</td> <td data-bbox="979 1633 1157 1675">2</td> </tr> <tr> <td data-bbox="418 1675 605 1717">35 to 39</td> <td data-bbox="605 1675 792 1717">1.25</td> <td data-bbox="792 1675 979 1717">1.5</td> <td data-bbox="979 1675 1157 1717">2</td> </tr> <tr> <td data-bbox="418 1717 605 1759">40 to 49</td> <td data-bbox="605 1717 792 1759">1.25</td> <td data-bbox="792 1717 979 1759">2</td> <td data-bbox="979 1717 1157 1759">2</td> </tr> <tr> <td data-bbox="418 1759 605 1801">50 to 59</td> <td data-bbox="605 1759 792 1801">1.5</td> <td data-bbox="792 1759 979 1801">2</td> <td data-bbox="979 1759 1157 1801">2</td> </tr> <tr> <td data-bbox="418 1801 605 1839">60 or higher</td> <td data-bbox="605 1801 792 1839">2</td> <td data-bbox="792 1801 979 1839">2</td> <td data-bbox="979 1801 1157 1839">2</td> </tr> </tbody> </table>	Volume per dose (mL) by patient weight				Patient weight (kg)	285 mcg/kg	428 mcg/kg	570 mcg/kg	10 to 12	0.35	0.5	0.6	13 to 15	0.4	0.6	0.8	16 to 19	0.5	0.8	1	20 to 24	0.6	1	1.25	25 to 29	0.8	1.25	1.5	30 to 34	0.9	1.5	2	35 to 39	1.25	1.5	2	40 to 49	1.25	2	2	50 to 59	1.5	2	2	60 or higher	2	2	2	1,140 mcg/kg/day up to a maximum of 38 mg/day (4 mL/day)											
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VI. Product Availability

Oral solution: 9.5 mg/mL (30 mL bottle)

VII. References

1. Livmarli Prescribing Information. Foster City, CA: Mirum Pharmaceuticals, Inc.; March 2024. Available at: <https://livmarlihcp.com/>. Accessed March 27, 2024.
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Alagille Syndrome

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Progressive Familial Intrahepatic Cholestasis

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12. ClinicalTrials.gov. A study to evaluate the efficacy and safety of Maralixibat in subjects with progressive familial intrahepatic cholestasis (MARCH-PFIC). Available at: <https://classic.clinicaltrials.gov/ct2/show/NCT03905330>. Accessed March 27, 2024.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created pre-emptively	06.01.21	08.21
Drug is now FDA approved - criteria updated per FDA labeling: added maximum daily dose per PI; added requirement for documentation of member’s weight in kg; references reviewed and updated.	10.12.21	11.21

Reviews, Revisions, and Approvals	Date	P&T Approval Date
3Q 2022 annual review: corrected maximum daily dose from 1 bottle per day to 3 mL per day; modified required pruritis from medium to moderate scratching to align with verbiage from the Itch Reported Outcome score used in the ICONIC trial; references reviewed and updated.	05.04.22	08.22
Template changes applied to other diagnoses/indications and continued therapy section.	10.05.22	
RT4: updated FDA-approved indication for pediatric extension from 1 year to 3 months of age and older.	04.05.23	
3Q 2023 annual review: added Appendix E containing ItchRO scale since criteria requires at least moderate scratching; references reviewed and updated.	04.27.23	08.23
RT4: criteria updated with newly approved indication for PFIC: modified age restriction, removed minimum body weight restriction, and updated limitation of use and contraindications per FDA labeling; references reviewed and updated.	03.27.24	

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.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

This clinical policy is the property of the Health Plan. Unauthorized copying, use, and distribution of this clinical policy or any information contained herein are strictly prohibited. Providers, members, and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members and their representatives agree to be bound by such terms and conditions by providing services to members and/or submitting claims for payment for such services.

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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