

## Clinical Policy: Pregabalin (Lyrica, Lyrica CR)

Reference Number: OR.CP.PMN.33

Effective Date: 07.01.22

Last Review Date: 05.24

Line of Business: Medicaid – Oregon Health Plan

[Revision Log](#)

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

### Description

Pregabalin (Lyrica®, Lyrica® CR), a structural derivative of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA), is a calcium channel alpha 2-delta ligand with anti-nociceptive and anti-seizure effects.

### FDA Approved Indication(s)

Lyrica is indicated for:

- Neuropathic pain associated with diabetic peripheral neuropathy (DPN)
- Postherpetic neuralgia (PNH)
- Adjunctive therapy for the treatment of partial-onset seizures in patients 1 month of age and older
- Fibromyalgia
- Neuropathic pain associated with spinal cord injury

Lyrica CR is indicated for the treatment of:

- Neuropathic pain associated with DPN
- PNH

### 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 Trillium Community Health Plan that Lyrica, Lyrica CR, pregabalin, and pregabalin CR are **medically necessary** when the following criteria are met:

#### I. Initial Approval Criteria

##### A. Neuropathic Pain (must meet all):

1. Diagnosis of neuropathic pain associated with DPN, PHN, treatment of cancer (*immediate-release only*), or spinal cord injury (*immediate-release only*);
2. Age  $\geq$  18 years;
3. Failure of a 30-day trial of gabapentin at  $\geq$  1,800 mg/day, unless contraindicated or clinically significant adverse effects are experienced;
4. If request is for controlled-release formulation, member must use immediate-release pregabalin, unless contraindicated or clinically significant adverse effects are experienced;

5. If request is for brand Lyrica, member must use generic pregabalin, unless contraindicated or clinically significant adverse effects are experienced;
6. Dose does not exceed one of the following (a, b, c, or d):
  - a. DPN: pregabalin – 300 mg per day; pregabalin CR – 330 mg per day;
  - b. Neuropathic pain associated with treatment of cancer: pregabalin – 300 mg per day;
  - c. Neuropathic pain associated with spinal cord injury: pregabalin – 600 mg per day;
  - d. PHN: pregabalin – 600 mg per day; pregabalin CR – 660 mg per day.

**Approval duration: up to 12 months**

**B. Partial Onset Seizures (must meet all):**

1. Diagnosis of partial onset seizures;
2. Prescribed by or in consultation with a neurologist;
3. Age  $\geq$  1 month;
4. Request is for immediate-release formulation;
5. Member meets one of the following (a or b):
  - a. Request is for the treatment of a member in a State with limitations on step therapy in certain settings (*see Appendix E*);
  - b. All the following (i and ii):
    - i. Failure of gabapentin used as adjunctive therapy to other anticonvulsants, unless contraindicated or clinically significant adverse effects are experienced;
    - ii. If request is for brand Lyrica, member must use generic pregabalin, unless contraindicated or clinically significant adverse effects are experienced;
6. Pregabalin will be used as adjunctive therapy to other anticonvulsants;
7. Request meets one of the following (a or b):
  - a. For members weighing  $< 30$  kg: Dose does not exceed 14 mg/kg per day;
  - b. For members weighing  $\geq 30$  kg: Dose does not exceed 600 mg 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 PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.PMN.255 for Medicaid; or
  - b. For drugs NOT on the PDL (Medicaid), the non-formulary policy for the relevant line of business: OR.CP.PMN.1001 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.PMN.53 for Medicaid.

## **II. Continued Therapy**

### **A. All Indications in Section I (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;
3. If request is for a dose increase, new dose does not exceed (a or b):
  - a. Immediate-release pregabalin (i, ii, iii, or iv):
    - i. DPN, neuropathic pain associated with treatment of cancer: 300 mg per day;
    - ii. PHN, neuropathic pain associated with spinal cord injury, GAD: 600 mg per day;
    - iii. For partial-onset seizures (1 or 2):
      - 1) For members weighing < 30 kg: dose does not exceed 14 mg/kg per day;
      - 2) For members weighing ≥ 30 kg: dose does not exceed 600 mg per day;
  - b. Controlled-release pregabalin (i or ii):
    - i. DPN: 330 mg per day;
    - ii. PHN: 660 mg per day.

**Approval duration: 12 months**

### **B. 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 PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.PMN.255 for Medicaid; or
  - b. For drugs NOT on the PDL (Medicaid), the non-formulary policy for the relevant line of business: OR.CP.PMN.1001 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.PMN.53 for Medicaid.

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

- A.** Treatment of fibromyalgia is not a condition covered by the Oregon Health Plan, thus use of pregabalin, Lyrica and Lyrica CR is not covered by Trillium OHP for this indication;
- B.** Dental pain;
- C.** Essential tremor;
- D.** Social phobia (i.e., social anxiety disorder);
- E.** 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 for Medicaid, or evidence of coverage documents.

## **IV. Appendices/General Information**

*Appendix A: Abbreviation/Acronym Key*

DPN: diabetic peripheral neuropathy  
FDA: Food and Drug Administration  
GABA: gamma-aminobutyric acid  
PNH: postherpetic neuralgia

SNRI: serotonin/norepinephrine reuptake inhibitor  
TCA: tricyclic antidepressant

*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
<b>TCAs</b>		
amitriptyline (Elavil <sup>®</sup> )	<b>Neuropathic Pain**</b> 25 to 150 mg PO QHS	150 mg/day <sup>†</sup>
desipramine (Norpramin <sup>®</sup> )	<b>Diabetic Peripheral Neuropathy**</b> Initially 25 mg PO QHS, then titrate as tolerated to efficacy (usual range: 75 mg to 150 mg PO QHS)  <b>Postherpetic Neuralgia**, Neuropathic Pain associated with Cancer Treatment**</b> 10 to 25 mg PO QHS and titrate to pain relief as tolerated (in one study, mean dose was 167 mg/day)	200 mg/day <sup>†</sup>
imipramine (Tofranil <sup>®</sup> , Tofranil PM <sup>®</sup> )	<b>Diabetic Peripheral Neuropathy**</b> 50 mg to 150 mg PO QHS	150 mg/day
nortriptyline (Pamelor <sup>®</sup> )	<b>Diabetic Peripheral Neuropathy**</b> 50 mg to 75 mg PO daily  <b>Postherpetic Neuralgia**</b> 75 mg to 150 mg PO daily  <b>Neuropathic Pain associated with Cancer Treatment**</b> 50 to 150 mg PO QHS	150 mg/day
<b>Serotonin/Norepinephrine Reuptake Inhibitors</b>		
duloxetine (Cymbalta <sup>®</sup> )	<b>Neuropathic pain**</b> 60 to 120 mg PO QD  <b>GAD</b> 30 to 60 mg PO QD	120 mg/day
venlafaxine extended-release (Effexor XR <sup>®</sup> )	<b>Neuropathic pain**</b> 75 mg to 225 mg PO QD	225 mg/day
<b>Miscellaneous</b>		

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
gabapentin (immediate-release: Neurontin <sup>®</sup> ; extended-release: Horizant <sup>®</sup> , Gralise <sup>®</sup> )	<p><b>Diabetic Peripheral Neuropathy**, Neuropathic Pain associated with Cancer Treatment**</b>  <i>Immediate-release:</i> 300 mg PO TID titrated based on clinical response</p> <p><b>Postherpetic Neuralgia</b>  <i>Immediate-release:</i> 300 mg PO QD on day 1, 300 mg PO BID on day 2, 300 mg PO TID on day 3, then titrate as needed to 1800 mg/day  <i>Extended-release (Gralise):</i> 300 mg PO on day 1, 600 mg on day 2, 900 mg on days 3-6, 1200 mg on days 7-10, 1500 mg on days 11-14, and 1800 mg on day 15 and thereafter  <i>Extended-release (Horizant):</i> 600 mg/day PO for 3 days, 600 mg PO BID on day 4 and thereafter</p> <p><b>Partial Seizures</b>  <i>Immediate-release:</i>  <u>Adults:</u> initially 300 mg PO TID; effective range 900-1,800 mg/day but up to 2400 mg/day has been used long term  <u>Children 3-12 years:</u> 10-15 mg/kg/day PO in 3 divided doses; effective dose 25-35 mg/kg/day if &gt; 5 years and 40 mg/kg/day if 3-4 years</p>	<p>Immediate release: 3,600 mg/day<sup>†</sup></p> <p>Gralise: 1,800 mg/day<sup>†</sup></p> <p>Horizant: 1,200 mg/day<sup>†</sup></p>
<b>Anticonvulsants</b>		
carbamazepine (Carbatrol <sup>®</sup> , Epitol <sup>®</sup> , Equetro <sup>®</sup> , Tegretol <sup>®</sup> , Tegretol XR <sup>®</sup> )	Refer to prescribing information	Refer to prescribing information
felbamate (Felbatol <sup>®</sup> )		
lamotrigine (Lamictal <sup>®</sup> , Lamictal CD <sup>®</sup> , Lamictal ODT <sup>®</sup> , Lamictal XR <sup>®</sup> )		
levetiracetam (Elevsia XR <sup>®</sup> , Keppra <sup>®</sup> , Keppra XR <sup>®</sup> , Roweepra <sup>®</sup> , Spritam <sup>®</sup> )		
oxcarbazepine (Oxtellar XR <sup>®</sup> , Trileptal <sup>®</sup> )		

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
phenobarbital (Luminal <sup>®</sup> )		
phenytoin (Dilantin <sup>®</sup> , Phenytek <sup>®</sup> )		
tiagabine (Gabitril <sup>®</sup> )		
topiramate (Qudexy XR <sup>®</sup> , Topamax <sup>®</sup> , Topamax Sprinkle <sup>®</sup> , Topiragen <sup>®</sup> , Trokendi XR <sup>®</sup> )		
valproic acid (divalproex sodium, Depakote Sprinkle <sup>®</sup> , Depakote ER <sup>®</sup> , Depakote <sup>®</sup> , Depakene <sup>®</sup> )		
zonisamide (Zonegran <sup>®</sup> )		

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.

\*Agents not included in this list may not have evidence supporting their use in the indications covered by this policy

\*\*Off-label use

†Maximum dose for drug, not necessarily indication

#### Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): known hypersensitivity to pregabalin or any of its components
- Boxed warning(s): none reported

#### Appendix D: General Information

- Class IIb recommendation in Micromedex for GAD is supported by 5 randomized, double blind, placebo-controlled studies. It is also considered a second-line agent by the Canadian Psychiatric Association.

## V. Dosage and Administration

Drug Name	Indication	Dosing Regimen	Maximum Dose
Pregabalin (Lyrica)*	DPN	3 divided doses PO per day	300 mg/day
	Neuropathic pain associated with treatment of cancer**	2 or 3 divided doses PO per day	300 mg/day
	PHN	2 or 3 divided doses PO per day	600 mg/day
	Partial onset seizures	Adults: 2 or 3 divided doses PO per day	Adults: 600 mg/day

Drug Name	Indication	Dosing Regimen	Maximum Dose
		Pediatric patients weighing > 30 kg: 2.5 mg/kg/day in 2 or 3 divided doses  Pediatric patients weighing < 30 kg: 3.5 mg/kg/day <ul style="list-style-type: none"> <li>1 month to &lt; 4 years old: 3 divided doses</li> <li>≥ 4 years old: 2 or 3 divided doses</li> </ul>	Pediatrics < 30 kg: 14 mg/kg/day
	Neuropathic pain associated with spinal cord injury	2 divided doses PO per day	600 mg/day
Pregabalin extended-release (Lyrica CR)	DPN	165 mg PO QD. Dose may be increased to 330 mg PO QD within 1 week.	330 mg/day
	PHN	165 mg PO QD. Dose may be increased to 330 mg PO QD within 1 week. After 2 to 4 weeks of treatment, dose may be increased to 660 mg PO QD in patients not experiencing adequate pain relief.	660 mg/day

\* Lyrica should be administered orally starting at 150 mg/day. It should be titrated up to 300 mg/day within 1 week for all indications except partial onset seizures.

\*\*Off-label use

## VI. Product Availability

Drug Name	Availability
Pregabalin (Lyrica)	Capsules: 25 mg, 50 mg, 75 mg, 100 mg, 150 mg, 200 mg, 225 mg, 300 mg Oral solution: 20 mg/mL
Pregabalin extended-release (Lyrica CR)	Tablets: 82.5 mg, 165 mg, 330 mg

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#### ***Postherpetic Neuralgia, Fibromyalgia, Seizures***

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#### ***Cancer Treatment-related Neuropathic Pain***

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Reviews, Revisions, and Approvals	Date	Plan Approval Date
Policy created: adapted from previously approved policy TCHP.PHAR.1807 Pregabalin	03.17.22	04.07.22



Reviews, Revisions, and Approvals	Date	Plan Approval Date
4Q 2022 annual review: no significant changes; references reviewed and updated	09.16.22	10.06.22
4Q 2023 annual review: no significant changes; template changes applied to other diagnoses/indications and continued therapy section; references reviewed and updated.	09.21.23	11.21.23
2Q 2024 annual review: for partial onset seizures, revised maximum dose from 420 mg to 14 mg/kg/day for members weighing < 30 kg per PI; for neuropathic pain associated-with spinal cord injury, clarified usage of pregabalin immediate release only per PI; references reviewed and updated.	06.29.24	05.21.24

### **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.

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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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