Clinical Policy: Pregabalin (Lyrica,Lyrica CR)

Reference Number: IL.PMN.33
Effective Date: 6.1.23
Last Review Date: 4.18.23
Line of Business: Medicaid

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 the treatment of:

- Neuropathic pain associated with diabetic peripheral neuropathy
- Postherpetic neuralgia
- Patients 1 month of age and older with partial onset seizures as adjunctive therapy
- Fibromyalgia
- Neuropathic pain associated with spinal cord injury

Lyrica CR is indicated for the treatment of:

- Neuropathic pain associated with diabetic peripheral neuropathy
- Postherpetic neuralgia

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 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 diabetic neuropathy, postherpetic neuralgia, treatment of cancer (*immediate-release only*), or spinal cord injury;
2. Age ≥ 18 years;
3. Failure of a 30-day trial of gabapentin at ≥ 1,800 mg/day, unless contraindicated or clinically significant adverse effects are experienced;
4. Failure of a 30-day trial of a tricyclic antidepressant (TCA) (e.g., amitriptyline, nortriptyline, imipramine) at up to maximally indicated doses, unless clinically significant adverse effects are experienced, member's age is ≥ 65, or all are contraindicated;
5. For all requests except neuropathic pain associated with postherpetic neuralgia, failure of a 30-day trial of a formulary serotonin/norepinephrine reuptake inhibitor

(SNRI) (e.g., duloxetine, venlafaxine) at up to maximally indicated doses, unless clinically significant adverse effects are experienced or all are contraindicated;
6. If request is for controlled-release formulation, member must use immediate-release generic pregabalin, unless contraindicated or clinically significant adverse effects are experienced;
7. If request is for brand Lyrica, member must use generic pregabalin, unless contraindicated or clinically significant adverse effects are experienced;
8. Dose does not exceed one of the following (a, b, or c):
   a. Diabetic neuropathy: 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. Postherpetic neuralgia, neuropathic pain associated with spinal cord injury: pregabalin – 600 mg per day; pregabalin CR – 660 mg per day.

Approval duration:
Medicaid – 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 ≥ 1 month;
4. Member must use immediate-release generic pregabalin, unless contraindicated or clinically significant adverse effects are experienced;
   ;
5. Failure of gabapentin used as adjunctive therapy to other anticonvulsants, unless contraindicated or clinically significant adverse effects are experienced;
6. Failure of TWO anticonvulsants indicated for partial seizures (e.g., carbamazepine, phenytoin, valproic acid, oxcarbazepine, phenobarbital, lamotrigine, levetiracetam, topiramate, zonisamide, tiagabine, felbamate) unless clinically significant adverse effects are experienced or all are contraindicated;
7. If request is for brand Lyrica, member must use generic pregabalin, unless contraindicated or clinically significant adverse effects are experienced;
8. Pregabalin will be used as adjunctive therapy to other anticonvulsants;
9. Request meets one of the following (a or b):
   a. For members weighing < 30 kg: Dose does not exceed 420 mg per day;
   b. For members weighing ≥ 30 kg: Dose does not exceed 600 mg per day.

Approval duration:
Medicaid – 12 months

C. Fibromyalgia (must meet all)**:**
1. Diagnosis of fibromyalgia;
2. Age ≥ 18 years;
3. Request is for immediate-release version;
4. Failure of a 30-day trial of gabapentin at ≥ 1,800 mg/day, unless contraindicated or clinically significant adverse effects are experienced;

5. Failure of a 30-day trial of duloxetine at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced;
6. Failure of a 30-day trial of cyclobenzaprine or a TCA at up to maximally indicated doses, unless clinically significant adverse effects are experienced, member's age is ≥ 65, or all are contraindicated;
7. If request is for brand Lyrica, member must use generic pregabalin, unless contraindicated or clinically significant adverse effects are experienced;
8. Dose does not exceed 450 mg per day.

Approval duration:
Medicaid/HIM – 12 months
Commercial – 12 months or duration of request, whichever is less

D. Generalized Anxiety Disorder (off-label) (must meet all)**:**
1. Diagnosis of generalized anxiety disorder;
2. Age ≥ 18 years;
3. Request is for immediate-release version;
4. Failure of TWO of the following alternatives, unless clinically significant adverse effects are experienced or all are contraindicated: escitalopram, paroxetine, venlafaxine ER, duloxetine, buspirone;
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 600 mg per day.

Approval duration:
Medicaid – 12 months

E. 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.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.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.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. Diabetic peripheral neuropathy, neuropathic pain associated with treatment of cancer: 300 mg per day;
      ii. Postherpetic neuralgia, neuropathic pain associated with spinal cord injury, generalized anxiety disorder: 600 mg per day;
      iii. For partial-onset seizures (a or b):
         a) For members weighing < 30 kg: dose does not exceed 420 mg per day;
         b) For members weighing ≥ 30 kg: dose does not exceed 600 mg per day;
      iv. Fibromyalgia: 450 mg per day;
   b. Controlled-release pregabalin (i or ii):
      i. Diabetic peripheral neuropathy: 330 mg per day;
      ii. Postherpetic neuralgia, neuropathic pain associated with spinal cord injury: 660 mg per day.

Approval duration:
Medicaid – 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 formulary (commercial, health insurance marketplace) or 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 formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: 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.PMN.53 for Medicaid.

III. Diagnoses/Indications for which coverage is NOT authorized:
A. Dental pain;
B. Essential tremor;
C. Social phobia (i.e., social anxiety disorder);
D. 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

FDA: Food and Drug Administration
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
TCAs		
amitriptyline (Elavil®)	**Fibromyalgia**** 10 mg to 50 mg PO QD **Neuropathic Pain**** 25 to 150 mg PO QHS	150 mg/day†
desipramine (Norpramin®)	**Diabetic Peripheral Neuropathy**** Initially 25 mg PO QHS, then titrate as tolerated to efficacy (usual range: 75 mg to 150 mg PO QHS) **Postherpetic Neuralgia**, Neuropathic Pain associated with Cancer Treatment **** 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†
imipramine (Tofranil®, Tofranil PM®)	**Diabetic Peripheral Neuropathy**** 50 mg to 150 mg PO QHS	150 mg/day
nortriptyline (Pamelor®)	**Diabetic Peripheral Neuropathy**** 50 mg to 75 mg PO daily **Postherpetic Neuralgia**** 75 mg to 150 mg PO daily **Neuropathic Pain associated with Cancer Treatment**** 50 to 150 mg PO QHS	150 mg/day
Serotonin/Norepinephrine Reuptake Inhibitors		
duloxetine (Cymbalta®)	**Fibromyalgia** 30 to 60 mg PO QD **Neuropathic pain**** 60 to 120 mg PO QD	120 mg/day
venlafaxine extended-release (Effexor XR®)	**Fibromyalgia**** 37.5 to 225 mg PO QD	225 mg/day

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
	Neuropathic pain** 75 mg to 225 mg PO QD	
Miscellaneous		
gabapentin (immediate-release: Neurontin®; extended-release: Horizant®, Gralise®)	**Diabetic Peripheral Neuropathy**, Neuropathic Pain associated with Cancer Treatment**** *Immediate-release*: 300 mg PO TID titrated based on clinical response **Fibromyalgia**** 300 mg PO QHS then increased to target dosage of 2,400 mg/day **Postherpetic Neuralgia** *Immediate-release*: 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 *Extended-release (Gralise)*: 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 *Extended-release (Horizant)*: 600 mg/day PO for 3 days, 600 mg PO BID on day 4 and thereafter **Partial Seizures** *Immediate-release*: Adults: initially 300 mg PO TID; effective range 900-1,800 mg/day but up to 2400 mg/day has been used long term Children 3-12 years: 10-15 mg/kg/day PO in 3 divided doses; effective dose 25-35 mg/kg/day if > 5 years and 40 mg/kg/day if 3-4 years	Immediate release: 3,600 mg/day† Gralise: 1,800 mg/day† Horizant: 1,200 mg/day†
cyclobenzaprine (Flexeril®)	**Fibromyalgia**** 10 mg to 20 mg PO QHS	20 mg/day
Anticonvulsants		
carbamazepine (Carbatrol®, Epitol®, Equetro®, Tegretol®, Tegretol XR®)	Refer to prescribing information	Refer to prescribing information

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
felbamate (Felbatol®)		
lamotrigine (Lamictal®, Lamictal CD®, Lamictal ODT®, Lamictal XR®)		
levetiracetam (Elepsia XR®, Keppra®, Keppra XR®, Roweepra®, Spritam®)		
oxcarbazepine (Oxtellar XR®, Trileptal®)		
phenobarbital (Luminal®)		
phenytoin (Dilantin®, Phenytek®)		
tiagabine (Gabitril®)		
topiramate (Qudexy XR®, Topamax®, Topamax Sprinkle®, Topiragen®, Trokendi XR®)		
valproic acid (divalproex sodium, Depakote Sprinkle®, Depakote ER®, Depakote®, Depakene®)		
zonisamide (Zonegran®)		

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.
**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 Generalized Anxiety Disorder 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)*	Diabetic peripheral neuropathy	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
	Postherpetic neuralgia	2 or 3 divided doses PO per day	600 mg/day
	Partial onset seizures	Adults: 2 or 3 divided doses PO per day 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 • 1 month to < 4 years old: 3 divided doses • ≥ 4 years old: 2 or 3 divided doses	Adults: 600 mg/day Pediatrics < 30 kg: 14 mg/kg/day
	Fibromyalgia	2 divided doses PO per day	450 mg/day
	Neuropathic pain associated with spinal cord injury	2 divided doses PO per day	600 mg/day
	Generalized anxiety disorder	Initially, 75 mg PO BID. If tolerated after 1 week, the dose may be increased to 150 mg PO BID. Thereafter, the dose may be adjusted according to response and tolerability. Data from clinical trials indicate an effective dose range is 150 to 225 mg PO BID.	600 mg/day
Pregabalin extended-release (Lyrica CR)	Diabetic peripheral neuropathy	165 mg PO QD. Dose may be increased to 330 mg PO QD within 1 week.	330 mg/day
	Postherpetic neuralgia	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.*

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

VII. References

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Diabetic Peripheral Neuropathy

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Postherpetic Neuralgia, Fibromyalgia, Seizures

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Generalized Anxiety Disorder

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Cancer Treatment-related Neuropathic Pain

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Reviews, Revisions, and Approvals	Date	P&T Approval Date
Adapted from CP.PMN.33 per HFS regulation	4.18.23	

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.

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.