Cigna National Formulary Coverage Policy



Prior Authorization Lidocaine Patch

Table of Contents

| National Formulary Medical Necessity | |
|--------------------------------------|---|
| Conditions Not Covered | 2 |
| Background | 3 |
| References | |
| Revision History | 5 |

Product Identifier(s)

Effective 1/1/23 to 2/27/23: 109280

Effective 2/28/23: 02948

INSTRUCTIONS FOR USE

The following Coverage Policy applies to health benefit plans administered by Cigna Companies. Certain Cigna Companies and/or lines of business only provide utilization review services to clients and do not make coverage determinations. References to standard benefit plan language and coverage determinations do not apply to those clients. Coverage Policies are intended to provide guidance in interpreting certain standard benefit plans administered by Cigna Companies. Please note, the terms of a customer's particular benefit plan document [Group Service Agreement, Evidence of Coverage, Certificate of Coverage, Summary Plan Description (SPD) or similar plan document] may differ significantly from the standard benefit plans upon which these Coverage Policies are based. For example, a customer's benefit plan document may contain a specific exclusion related to a topic addressed in a Coverage Policy. In the event of a conflict, a customer's benefit plan document always supersedes the information in the Coverage Policies. In the absence of a controlling federal or state coverage mandate, benefits are ultimately determined by the terms of the applicable benefit plan document. Coverage determinations in each specific instance require consideration of 1) the terms of the applicable benefit plan document in effect on the date of service; 2) any applicable laws/regulations; 3) any relevant collateral source materials including Coverage Policies and; 4) the specific facts of the particular situation. Coverage Policies relate exclusively to the administration of health benefit plans. Coverage Policies are not recommendations for treatment and should never be used as treatment guidelines. In certain markets, delegated vendor guidelines may be used to support medical necessity and other coverage determinations.

National Formulary Medical Necessity

Drugs Affected

- Lidoderm[®] (lidocaine 5% patch, generic)
- ZTlido™ (lidocaine 1.8% topical system)

Cigna covers lidocaine 5% patch (Lidoderm[®]) and lidocaine 1.8% topical system (ZTlido[™]) as medically necessary when the following criteria are met for FDA Indications or Other Uses with Supportive Evidence:

Prior Authorization is recommended for prescription benefit coverage of lidocaine patches. All approvals are provided for the duration noted below.

FDA Indication(s)

1. Postherpetic Neuralgia (PHN). Approve for 1 year.

Other Uses with Supportive Evidence

- 2. **Low Back Pain.** Approve for 1 year after trying at least three pharmacologic therapies with each one from a different class of medication used to treat low back pain.

 Note: Examples of different classes of pharmacologic therapies for low back pain include acetaminophen.
 - <u>Note</u>: Examples of different classes of pharmacologic therapies for low back pain include acetaminophen, nonsteroidal anti-inflammatory drugs, muscle relaxants, celecoxib, duloxetine, gabapentin. Examples of nonsteroidal anti-inflammatory drugs include etodolac, meloxicam, and nabumetone. Examples of muscle relaxants include carisoprodol, chlorzoxazone, cyclobenzaprine, metaxalone, methocarbamol, and orphenadrine.
- 3. Neuropathic Pain. Approve for 1 year.

 Note: For neuropathic pain due to radiculopathy or sciatica, please refer to the Not Recommended for Approval section for Radiculopathy or Sciatica.
- 4. Osteoarthritis. Approve for 1 year after trying at least three pharmacologic therapies with each one from a different class of medication used for the treatment of osteoarthritis.
 Note: Examples of different classes of pharmacologic therapies for osteoarthritis include acetaminophen, celecoxib, nonsteroidal anti-inflammatory drugs, salicylates, intraarticular glucocorticoids, intraarticular hyaluronan, topical capsaicin, and topical methylsalicylate.²² Examples of nonsteroidal anti-inflammatory drugs include etodolac, meloxicam, and nabumetone.

Conditions Not Covered

Lidocaine 5% patch (Lidoderm®) and lidocaine 1.8% topical system (ZTlido™) is considered experimental, investigational or unproven for ANY other use including the following (this list may not be all inclusive):

- 1. Carpal Tunnel Syndrome. Two open-label trials have investigated the lidocaine 5% patch for the relief of pain associated with carpal tunnel syndrome.^{23,24} In an open-label, parallel-group, single-center, active-controlled trial,²³ 40 individuals with carpal tunnel syndrome were randomized to daily treatment with lidocaine patch 5% or an injection of lidocaine 1% plus methylprednisolone. After 4 weeks of treatment, both groups reported statistically significant improvement in pain scores. A 6-week, randomized, parallel-group, open-label multicenter study²⁴ found that lidocaine 5% patches given every 24 hours and naproxen 500 mg twice daily both led to significant reductions is the Average Pain Intensity scores in 100 individuals with carpal tunnel syndrome. The 2016 American Academy of Orthopaedic Surgeons (AAOS) guidelines on carpal tunnel syndrome do not mention topical lidocaine in their recommendations for treatment.²⁵ In addition, the AAOS guidelines have a supplemental evidence table that addresses the studies AAOS evaluated for their guidelines. This table states that the above-referenced articles were excluded from their guidelines because they used non-validated outcome measures.
- **2. Fibromyalgia.** There are no data available on the use of lidocaine patches in treating pain associated with fibromyalgia.
- 3. Myofascial Pain as Adjunctive Therapy. Published data are limited to small (n \leq 60 in each study) studies of lidocaine 5% patches. ²⁶⁻²⁹ Larger, controlled studies are needed to fully determine the place in therapy of lidocaine patches for the treatment of myofascial pain.
- 4. Pain Associated with Rib Fractures. Lidocaine 5% patch did not significantly improve pain control in individuals with traumatic rib fractures in one randomized, double-blind, placebo-controlled study.³⁰ A retrospective chart analysis found lidocaine patches decreased pain scores in 29 individuals with rib fractures vs. 29 matched controls, with no change in narcotic use and no difference in time to return to baseline activity.³¹ A small (n = 44) double-blind, placebo-controlled study in hospitalized individuals with traumatic rib fracture in Taiwan found that lidocaine 5% patch decreased pain scores after Day 5 of therapy vs. placebo, with no difference in oral opioid use but decreased meperidine injection use.³² Larger, controlled studies are needed to fully determine the place in therapy of lidocaine 5% patch for the treatment of pain associated with rib fractures.

- **5. Radiculopathy.** Published data on the use of lidocaine patches in treating pain associated with radiculopathy is limited. 11,33 Larger, controlled studies are needed to fully determine the place in therapy of lidocaine patches for the treatment of radiculopathy.
- 6. Rheumatoid Arthritis (RA). There are no data available on the use of lidocaine patches in treating pain associated with RA.
- **7. Sciatica.** There are no data available on the use of lidocaine patches in treating pain associated with sciatica.

Background

Overview

Lidocaine 5% patch and ZTlido are indicated for the **relief of pain associated with postherpetic neuralgia** (PHN).^{1,2}

Lidocaine is an amide-type local anesthetic agent whose neuronal membrane stabilizing effect produces a local analgesic effect when applied transdermally.^{1,2} The lidocaine penetration into intact skin is adequate to produce an analgesic effect, but less than the amount needed to produce a complete sensory block. In a single-dose, crossover study in healthy volunteers, ZTlido demonstrated equivalent exposure and peak concentration of lidocaine to lidocaine patch 5% (Lidoderm, generics).²

Other Uses with Supportive Evidence

Lidocaine 5% patches have been shown to be effective in treating low back pain in open-label studies in patients not achieving adequate pain relief despite as needed or stable doses of non-selective nonsteroidal antiinflammatory drugs (NSAIDs), cyclooxygenase-2 (COX-2) inhibitors, gabapentin, tramadol, or opioids.³⁻⁵ The guidelines for treatment of low back pain (2017) do not address the use of topical lidocaine; however, various other agents are used for pain associated with low back pain.⁶ In patients with acute or subacute low back pain. the guidelines recommend NSAIDs or skeletal muscle relaxants as pharmacologic treatment options (strong recommendation; moderate-quality evidence). In patients with chronic low back pain who have had an inadequate response to nonpharmacologic therapy, the guidelines recommend consideration of pharmacologic treatment with NSAIDs as first-line therapy or tramadol or duloxetine as second-line therapy. Of note, tramadol is a narcotic and, like other opioids, is associated with the risk for abuse. Clinicians should only consider opioids as an option in patients who have failed the aforementioned treatments and only if the potential benefits outweigh the risks for individual patients and after a discussion of known risks and realistic benefits with patients (weak recommendation; moderate-quality evidence). Moderate-quality evidence showed no difference in pain between tricyclic antidepressants (TCAs) or selective serotonin reuptake inhibitors vs. placebo, and low-quality evidence showed no differences in function for antidepressants. Moderate-quality evidence showed that duloxetine was associated with a small improvement in pain intensity and function vs. placebo.

Lidocaine 5% patch has been shown to be effective in treating neuropathic pain of various forms and etiologies as monotherapy and, more commonly, as adjunctive therapy to a stable analgesic regimen.^{3,7-14} There is evidence to suggest that lidocaine 5% patch, along with several other analgesics (i.e., opioids, tramadol, TCAs), can be effective as first-line therapy in the management of neuropathic pain.¹² The 2011 evidence-based guideline on treatment of painful diabetic neuropathy, published by the American Academy of Neurology (AAN), indicates the lidocaine 5% patch may be considered for the treatment of painful diabetic neuropathy.¹⁵ Recommendations for the pharmacological management of neuropathic pain, published by the Mayo Foundation, indicate that lidocaine 5% patch has shown efficacy in patients with varying types of neuropathic pain, and are considered a first-line therapy.¹⁶

Several open-label trials have shown lidocaine 5% patches to be effective in treating pain associated with osteoarthritis of the knee both as monotherapy and in combination with other analgesics (e.g., NSAIDs, COX-2 inhibitors, opioids, tramadol, acetaminophen). ¹⁷⁻²⁰ In one open-label comparative trial (prematurely terminated before enrollment goals were achieved due to safety concerns surrounding the entire COX-2 class), ²¹ treatment

of knee osteoarthritis with lidocaine 5% patches (1-1/3 patches applied every 24 hours) resulted in comparable reductions in pain intensity scores as celecoxib 200 mg/day.

References

- 1. Lidoderm® patches [prescribing information]. Malvern, PA: Endo; November 2018.
- 2. ZTlido® transdermal system [prescribing information]. San Diego, CA: Scilex; April 2021.
- 3. White WT, Patel N, Drass M, Nalamachu S. Lidocaine patch 5% with systemic analgesics such as gabapentin: a rational polypharmacy approach for the treatment of chronic pain. *Pain Med.* 2003;4(4):321-30.
- 4. Galer BS, Gammaitoni AR, Oleka N, Jensen MP, Argoff CE. Use of the lidocaine patch 5% in reducing intensity of various pain qualities reported by patients with low-back pain. *Curr Med Res Opin*. 2004;20(Suppl 2):S5-12.
- 5. Gimbel J, Linn R, Hale M, Nicholson B. Lidocaine patch treatment in patients with low back pain: results of an open-label, nonrandomized pilot study. *Am J Ther*. 2005;12:311-319.
- 6. Qaseem A, Wilt TJ, McLean RM, et al. Noninvasive treatments for acute, subacute, and chronic low back pain: a clinical practice guideline from the American College of Physicians. *Ann Intern Med*. 2017;166(7):514-530.
- 7. Barbano RL, Herrmann DN, Hart-Gouleau S, Pennella-Vaughan J, Lodewick PA, Dworkin RH. Effectiveness, tolerability, and impact on quality of life of the 5% lidocaine patch in diabetic polyneuropathy. *Arch Neurol.* 2004;61(6):914-918.
- 8. IBM Micromedex[®]. 2022 IBM Corporation. Available at: http://www.micromedexsolutions.com/home/dispatch. Accessed on September 26, 2022. Search terms: lidocaine.
- 9. Meier T, Wasner G, Faust M, et al. Efficacy of lidocaine patch 5% in the treatment of focal peripheral neuropathic pain syndromes: a randomized, double-blind, placebo-controlled study. *Pain*. 2003;106(1-2):151-158.
- 10. Galer BS, Jensen MP, Ma T, et al. The lidocaine patch 5% effectively treats all neuropathic pain qualities: results of a randomized, double-blind, vehicle-controlled, three-week efficacy study with use of the neuropathic pain scale. *Clin J Pain.* 2002;18:297-301.
- 11. Devers A, Galer BS. Topical lidocaine patch relieves a variety of neuropathic pain conditions: an open-label study. *Clin J Pain*. 2000;16:205-208.
- 12. Dworkin RH, Backonja M, Rowbotham MC, et al. Advances in neuropathic pain: diagnosis, mechanisms, and treatment recommendations. *Arch Neurol.* 2003;60(11):1524-1534.
- 13. Herrmann DN, Barbano RL, Hart-Gouleau S, et al. An open-label study of the lidocaine patch 5% in painful idiopathic sensory polyneuropathy. *Am Acad Pain Med*. 2005;6(5):379-384.
- 14. Fleming JA, O'Connor BD. Use of lidocaine patches for neuropathic pain in a comprehensive cancer centre. *Pain Res Manage*. 2009;14:381-388.
- 15. Bril V, England J, Franklin GM, et al. Evidence-based Guideline: Treatment of Painful Diabetic Neuropathy Report of the American Academy of Neurology, the American Association of Neuromuscular and Electrodiagnostic Medicine, and the American Academy of Physical Medicine and Rehabilitation. *Neurology*. 2011;76(20):1758-1765.
- 16. Dworkin RH, O'Connor AB, Audette J, et al. Recommendations for the pharmacological management of neuropathic pain: an overview and literature update. *Mayo Clin Proc.* 2010;85:S3-S14.
- 17. Galer BS, Sheldon E, Patel N, et al. Topical lidocaine patch 5% may target a novel underlying pain mechanism in osteoarthritis. *Curr Med Res Opin*. 2004;20(9):1455-1458.
- 18. Gammaitoni AR, Galer BS, Onawala R, et al. Lidocaine patch 5% and its positive impact on pain qualities in osteoarthritis: results of a pilot 2-week, open-label study using the Neuropathic Pain Scale. *Curr Med Res Opin.* 2004;20(Suppl 2):S13-19.
- 19. Burch F, Codding C, Patel N, Sheldon E. Lidocaine patch 5% improves pain, stiffness, and physical function in osteoarthritis pain patients. *Osteoarthritis Cartilage*. 2004;12(3):253-255.
- 20. Stitik TP, Altschuler E, Foye PM. Pharmacotherapy of osteoarthritis. *Am J Phys Med Rehabil*. 2006;85(11 Suppl):S15-S28.

- 21. Kivitz A, Fairfax M, Sheldon EA, et al. Comparison of the effectiveness and tolerability of lidocaine patch 5% versus celecoxib for osteoarthritis-related knee pain: post hoc analysis of a 12-week, prospective. randomized, active-controlled, open-label, parallel-group trial in adults. Clin Ther. 2008;30:2366-2377.
- 22. Hochberg MC, Altman RD, April KT, et al. American College of Rheumatology 2012 recommendations for the use of nonpharmacologic and pharmacologic therapies in osteoarthritis of the hand, hip, and knee. Arthritis Care Res. 2012;64:465-474.
- 23. Nalamachu S, Crockett RS, Mathur D. Lidocaine patch 5 for carpal tunnel syndrome: how it compared with injections: a pilot study. J Fam Pract. 2006;55(3):209-214.
- 24. Nalamachu S, Crockett RS, Gammaitoni AR, Gould EM. A comparison of the lidocaine patch 5% vs. naproxen 500 mg twice daily for the relief of pain associated with carpal tunnel syndrome: a 6-week, randomized, parallel-group study. MedGenMed. 2006;8(3):33.
- 25. American Academy of Orthopaedic Surgeons. Management of Carpal Tunnel Syndrome Evidence-Based Clinical Practice Guideline. Available at: http://www.orthoquidelines.org/topic?id=1020. Published February 29, 2016. Accessed on September 12, 2022.
- 26. Dalpiaz AS, Lordon SP, Lipman AG. Topical lidocaine patch therapy for myofascial pain. J Pain Palliat Care Pharmacother. 2004;18(3):15-34.
- 27. Firmani M, Miralles R, Casassus R. Effect of lidocaine patches on upper trapezius EMG activity and pain intensity in patients with myofascial trigger points: a randomized clinical study. Acta Odontol Scand. 2015;73(3):210-218.
- 28. Affaitati G, Fabrizio A, Savini A, et al. A randomized, controlled study comparing a lidocaine patch, a placebo patch, and anesthetic injection for treatment of trigger points in patients with myofascial pain syndrome: evaluation of pain and somatic pain thresholds. Clin Ther. 2009;31:705-720.
- 29. Lin YC, Kuan TS, Hsieh PC, et al. Therapeutic effects of lidocaine patch on myofascial pain syndrome of the upper trapezius: a randomized, double-blind, placebo-controlled study. Am J Phys Med Rehabil. 2012:91:871-882.
- 30. Ingalls NK, Horton ZA, Bettendorf M, et al. Randomized, double-blind, placebo-controlled trial using lidocaine patch 5% in traumatic rib fractures. J Am Coll Surg. 2010;210:205-209.
- 31. Zink KA, Mayberry JC, Peck EG, et al. Lidocaine patches reduce pain in trauma patients with rib fractures. Am Surg. 2011;77(4):438-442.
- 32. Cheng YJ. Lidocaine skin patch (Lidopat® 5%) is effective in the treatment of traumatic rib fractures: a prospective double-blinded and vehicle-controlled study. Med Princ Pract. 2016;25(1):36-39.
- 33. Martini A, Del Balzo G, Schweiger V, et al. Efficacy of lidocaine 5% medicated plaster (VERSATIS®) in patients with localized neuropathic pain poorly responsive to pharmacological therapy. Minerva Med. 2018;109(5):344-351.

Revision History

| Type of Revision | Summary of Changes | Approval Date |
|--------------------|----------------------|---------------|
| Annual Revision | No criteria changes. | 09/28/2022 |

[&]quot;Cigna Companies" refers to operating subsidiaries of Cigna Corporation. All products and services are provided exclusively by or through such operating subsidiaries, including Cigna Health and Life Insurance Company, Connecticut General Life Insurance Company, Evernorth Behavioral Health, Inc., Cigna Health Management, Inc. and HMO or service company subsidiaries of Cigna Health Corporation. The Cigna name, logo, and other Cigna marks are owned by Cigna Intellectual Property, Inc. © 2023 Cigna.