

Clinical Policy: Triamcinolone ER Injection (Zilretta)

Reference Number: LA.PHAR.371 Effective Date: 03.01.18 Last Review Date: 02.23 Line of Business: Medicaid

Coding Implications Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Please note: This policy is for medical benefit

Description

Triamcinolone acetonide extended-release injectable suspension (Zilretta[®]) is an extended-release synthetic corticosteroid.

FDA Approved Indication(s)

Zilretta is indicated as an intra-articular injection for the management of osteoarthritis pain of the knee.

Limitation(s) of use: The efficacy and safety of repeat administration of Zilretta have not been demonstrated.

Policy/Criteria

<u>Prior authorization is required</u> 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 Louisiana Healthcare Connections that Zilretta is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Osteoarthritis of the Knee (must meet all):

- 1. Diagnosis of osteoarthritis of the knee supported by imaging (e.g., X-ray, MRI);
- 2. Prescribed by or in consultation with a rheumatologist, orthopedist, or sports medicine physician;
- 3. Age \geq 18 years;
- 4. Failure of \geq 4-week trial of one of the following (a or b), unless clinically significant adverse effects are experienced or all are contraindicated:
 - a. Oral nonsteroidal anti-inflammatory drug (NSAID) at continuous therapeutic dosing (prescription strength);
 - b. Topical NSAID if member is \geq 75 years old or unable to take oral NSAIDs; **Prior authorization may be required for topical NSAIDs*
- 5. Trial of at least one other intra-articular glucocorticoid injection for the knee with a documented positive, but inadequate response (e.g., inadequate pain relief, frequent need of rescue medications such as NSAIDs or opioids, need to decrease or inability to increase activity levels, adequate pain relief but with steroid-induced hyperglycemia);



CLINICAL POLICY

Triamcinolone ER Injection

*Prior authorization may be required for intra-articular glucocorticoids

6. Dose does not exceed 32 mg as a single intra-articular injection into the knee.

Approval duration: 3 months (one dose per knee)

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 LA.PMN.255 for Medicaid; or
 - b. For drugs NOT on the PDL (Medicaid), the non-formulary policy LA.PMN.16 for Medicaid; or
- 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 LA.PMN.53 for Medicaid.

II. Continued Therapy

A. Osteoarthritis of the Knee

1. Re-authorization is not permitted. Zilretta is not indicated for repeat administration in the same knee. For an untreated knee, members must meet the initial approval criteria.

Approval duration: Not applicable

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 LA.PMN.255 for Medicaid; or
 - b. For drugs NOT on the PDL (Medicaid), the non-formulary policy LA.PMN.16 for Medicaid; or
- 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 LA.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 policy LA.PMN.53 for Medicaid.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key FDA: Food and Drug Administration

MRI: magnetic resonance imaging



NSAID: non-steroidal anti-inflammatory drug

TA: triamcinolone acetonide

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose	
Oral NSAIDs			
diclofenac (Voltaren [®])	50 mg PO BID to TID	150 mg/day	
etodolac (Lodine [®])	400-500 mg PO BID	1,200 mg/day	
fenoprofen (Nalfon®)	400-600 mg PO TID to QID	3,200 mg/day	
ibuprofen (Motrin [®])	400-800 mg PO TID to QID	3,200 mg/day	
indomethacin (Indocin [®])	25-50 mg PO BID to TID	200 mg/day	
indomethacin SR	75 mg PO QD to BID	150 mg/day	
ketoprofen	25-75 mg PO TID to QID	300 mg/day	
meloxicam (Mobic [®])	7.5-15 mg PO QD	15 mg/day	
naproxen (Naprosyn [®])	250-500 mg PO BID	1,500 mg/day	
naproxen sodium (Anaprox [®] ,	275-550 mg PO BID	1,650 mg/day	
Anaprox DS [®])			
oxaprozin (Daypro®)	600-1,200 mg PO QD	1,800 mg/day	
piroxicam (Feldene®)	10-20 mg PO QD	20 mg/day	
salsalate (Disalcid®)	1,500 mg PO BID or 1,000 mg PO TID	3,000 mg/day	
sulindac	150 mg-200 mg PO BID	400 mg/day	
Topical NSAIDs			
diclofenac 1.5% (Pennsaid®)	40 drops QID on each painful knee	160 drops/knee/day	
Voltaren [®] Gel 1% (diclofenac)	2-4 g applied to affected area QID	32 g/day	
Intra-articular Glucocorticoide	;		
triamcinolone acetonide	40 mg (1 mL) for large joints	80 mg/treatment	
(Kenalog [®])			
Aristospan [®] (triamcinolone hexacetonide)	10-20 mg for large joints	20 mg/treatment	
methylprednisolone acetate	20-80 mg for large joints	80 mg/treatment	
(Depo-Medrol [®])			
hydrocortisone acetate	25-50 mg for large joints	75 mg/treatment	

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.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): patients with hypersensitivity to triamcinolone acetonide or any component of the product
- Boxed warning(s): none reported



Appendix D: General Information

- Zilretta (extended-release triamcinolone acetonide [TA-ER]) is designed to deliver TA over 12 weeks using extended-release microsphere technology. In contrast, Bodick, et al., 2015, reports that, historically, immediate-release intraarticular glucocorticoids, while demonstrating a large initial analgesic effect, wane over one to four weeks.
- In an evaluation of TA-ER vs immediate-release triamcinolone acetonide (TA-IR) synovial and systemic pharmacokinetics, Krause, et al, 2017, reports that TA-ER demonstrated prolonged residency in the joint (through week 12) relative to TA-IR (through week 6), and consequently showed diminished peak plasma steroid levels relative to TA-IR through week 6. Russell, et al, 2017, reports that in patients with knee osteoarthritis and type-2 diabetes mellitus, TA-ER was associated with a significant and clinically relevant reduction in blood glucose elevation relative to TA-IR 72 hours post-injection.
- In the Zilretta pivotal trial, Conaghan, et al, 2018, reported superiority of TA-ER versus placebo to 12 weeks in average daily pain (ADP) scores (primary endpoint) and continuing TA-ER activity out to 24 weeks. While TA-ER did not show superior outcomes relative to TA-IR over 12 weeks in ADP scores (secondary endpoint), it was superior to TA-IR at week 12 when evaluated using the exploratory endpoints Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC)-A/B/C and Knee injury and Osteoarthritis Outcome Score Quality of Life (KOOS QoL) subscales.
- Conaghan also reports that patients treated with TA-ER used significantly less rescue medication than those treated with TA-IR.
- A phase 3b, open-label, single-arm study by Spitzer et al., 2019, evaluated the safety and efficacy of repeat administration of Zilretta in 208 patients, of whom 179 received a second injection of Zilretta after a median of 16.6 weeks. Additional injections after the second dose were not allowed.
 - The proportion of patients who experienced arthralgia in any joint was nearly doubled during the second injection period (19.0%) compared to the first injection period (10.6%); there were also slightly higher rates of index-knee treatment-emergent AEs during the second injection period (17.3%) compared to the first (14.0%).
 - The FDA highlights this concern in the Zilretta Prescribing Information, Section 6.1 Adverse Reactions – Clinical Studies, stating "The data from this study are insufficient to fully characterize the safety of repeat administration of Zilretta." As a result, the label continues to retain a limitation of use concerning the unknown benefit of repeat administration.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Osteoarthritis	32 mg (5 mL) as a single intra-articular extended-	32 mg (5 mL)
of the knee	release injection	

VI. Product Availability

Injectable suspension of microspheres (single-dose vial for reconstitution): 32 mg/5 mL



VII. References

- 1. Zilretta Prescribing Information. Burlington, MA: Flexion Therapeutics, Inc.; March 2022. Available at: http://www.zilrettalabel.com/PI.pdf. Accessed October 28, 2022.
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- 4. Brown GA. American Academy of Orthopaedic Surgeons clinical practice guidelines: Treatment of osteoarthritis of the knee: Evidence-based guideline, 2nd edition. *J Am Acad Orthop Surg.* 2013;21(9):577-9. doi: 10.5435/JAAOS-21-09-577.
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- 9. Russell SJ, Sala R, Conaghan PG, et al. In type 2 diabetes mellitus patients with knee osteoarthritis intra-articular injection of FX006 (Extended Release Triamcinolone) is associated with reduced blood glucose elevation vs. standard triamcinolone; a randomized, blinded, parallel group study. *Diabetes*. 2017; 66(Suppl 1): A289.
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- 11. Langworthy MJ, Conaghan PG, Ruane JJ, et al. Efficacy of triamcinolone acetonide extended-release in participants with unilateral knee osteoarthritis: A post hoc analysis. Adv Ther. 2019; 36: 1398-1411.
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- 14. Hayashi D, Roemer FW, Guermazi A. Imaging for osteoarthritis. Ann Phys Rehab Med 2016 Jun;59(3):161-9.



CLINICAL POLICY

Triamcinolone ER Injection

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- Bannuru RR, Osani MC, Vaysbrot EE, et al. OARSI guidelines for the non-surgical management of knee, hip, and polyarticular osteoarthritis. Osteoarthritis and Cartilage. 2019; 27: 1578-1589.
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Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-todate sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J3304	Injection, triamcinolone acetonide, preservative-free, extended-release, microsphere formulation, 1 mg

Reviews, Revisions, and Approvals	Date	LDH Approval Date
Converted corporate to local policy	02.23	

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. LHCC 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.

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