

## Clinical Policy: Hyaluronate Derivatives

Reference Number: LA.PHAR.05

Effective Date:

Last Review Date: 04.22

Line of Business: Medicaid

Coding Implications

Revision Log

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

### Description

The following are hyaluronate derivatives requiring prior authorization: sodium hyaluronate (Euflexxa<sup>®</sup>, Gelsyn-3<sup>™</sup>, GenVisc<sup>®</sup>850, Hyalgan<sup>®</sup>, Supartz<sup>™</sup>, Supartz FX<sup>™</sup>, Synjoyn<sup>™</sup>, Triluron<sup>™</sup>, TriVisc<sup>™</sup>, VISCO-3<sup>™</sup>), hyaluronic acid (Durolane<sup>®</sup>), cross-linked hyaluronate (Gel-One<sup>®</sup>), hyaluronan (Hymovis<sup>®</sup>, Orthovisc<sup>®</sup>, Monovisc<sup>®</sup>), and hylan polymers A and B (Synvisc<sup>®</sup>, Synvisc One<sup>®</sup>).

### FDA Approved Indication(s)

Hyaluronate derivatives are indicated for the treatment of pain in osteoarthritis (OA) of the knee in patients who have failed to respond adequately to conservative non-pharmacologic therapy and to simple analgesics (e.g., acetaminophen) or non-steroidal anti-inflammatory drugs (NSAIDs).

### Policy/Criteria

*Prior authorization is required. 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 hyaluronate derivatives are medically necessary when the following criteria are met:

#### I. Initial Approval Criteria

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

1. Diagnosis of OA 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. Inadequate response to physical therapy as directed by a physical therapist;
4. Failure of a  $\geq 4$ -week trial of one of the following (a or b), as evidenced by claims history, unless all are contraindicated or clinically significant adverse effects are experienced:
  - a. Oral NSAID at continuous therapeutic (prescription strength) dosing;
  - 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 intra-articular glucocorticoid injection with a documented positive but inadequate response (see *Appendix D for examples*) unless contraindicated or history of intolerance;  
*\*Prior authorization may be required for intra-articular glucocorticoids*
6. Member does not have any of the following:

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- a. Coexistent active inflammatory arthritis other than OA (e.g., rheumatoid arthritis, spondylitis, gouty arthritis) in the targeted knee;
  - b. History of total knee arthroplasty in the targeted knee;
  7. Dose does not exceed one treatment cycle per knee for a 6 month period.
- Approval duration: 6 months (one treatment cycle per knee) (refer to section V)

#### B. Other diagnoses/indications

1. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): LA.PMN.53.

## II. Continued Therapy

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

1. Currently receiving medication via Louisiana Healthcare Connections benefit or member has previously met initial approval criteria;
2. Member is responding positively to therapy as evidenced by the following, including but not limited to:
  - a. Decrease in pain symptoms as evidenced by improvement in the Visual Analog Scale for pain;
  - b. Improvement in ambulation or range of motion;
  - c. Improvement in stiffness;
  - d. Decrease in rescue pain medication use;
3. Member has not had total knee arthroplasty in the targeted knee;
4. Six or more months have elapsed since the last treatment cycle;
5. Dose does not exceed one treatment cycle per knee.

Approval duration: 6 months (one treatment cycle per knee) (refer to section V)

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

1. Currently receiving medication via Louisiana Healthcare Connections benefit and documentation supports positive response to therapy.  
Approval duration: Duration of request or 6 months (whichever is less); or
2. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): LA.PMN.53.

## 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 or evidence of coverage documents.

## IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

FDA: Food and Drug Administration

NSAID: non-steroidal anti-inflammatory drug

OA: osteoarthritis

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### 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.*

<u>Drug Name</u>	<u>Dosing Regimen</u>	<u>Dose Limit/ Maximum Dose</u>
<u>Oral NSAIDs</u>		
<u>diclofenac (Voltaren®)</u>	<u>50 mg PO TID</u>	<u>150 mg/day</u>
<u>etodolac (Lodine®)</u>	<u>400-500 mg PO BID</u>	<u>1,200 mg/day</u>
<u>fenoprofen (Nalfon®)</u>	<u>400 mg PO TID to QID</u>	<u>3,200 mg/day</u>
<u>ibuprofen (Motrin®)</u>	<u>400-800 mg PO TID to QID</u>	<u>3,200 mg/day</u>
<u>indomethacin (Indocin®)</u>	<u>25-50 mg PO BID to TID</u>	<u>200 mg/day</u>
<u>indomethacin SR (Indocin SR®)</u>	<u>75 mg PO QD to BID</u>	<u>150 mg/day</u>
<u>ketoprofen (Orudis®)</u>	<u>25-75 mg PO TID to QID</u>	<u>300 mg/day</u>
<u>meloxicam (Mobic®)</u>	<u>7.5-15 mg PO QD</u>	<u>15 mg/day</u>
<u>naproxen (Naprosyn®)</u>	<u>250-500 mg PO BID</u>	<u>1,500 mg/day</u>
<u>naproxen sodium (Anaprox®, Anaprox DS®)</u>	<u>275-550 mg PO BID</u>	<u>1,650 mg/day</u>
<u>oxaprozin (Daypro®)</u>	<u>600-1,200 mg PO BID</u>	<u>1,800 mg/day</u>
<u>piroxicam (Feldene®)</u>	<u>10-20 mg PO QD</u>	<u>20 mg/day</u>
<u>salsalate (Disalcid®)</u>	<u>500-750 mg PO TID, titrated up to 30,00 mg QD</u>	<u>3,000 mg/day</u>
<u>sulindac (Clinoril®)</u>	<u>150 mg-200 mg PO BID</u>	<u>400 mg/day</u>
<u>tolmetin DS (Tolectin DS®)</u>	<u>400 mg PO TID, titrated up to 1,800 mg QD</u>	<u>1,800 mg/day</u>
<u>Topical NSAIDs</u>		
<u>diclofenac 1.5% (Pennsaid®)</u>	<u>40 drops QID on each painful knee</u>	<u>320 drops/day</u>
<u>Voltaren® Gel 1% (diclofenac)</u>	<u>2-4 g applied to affected area QID</u>	<u>32 g/day</u>
<u>Intra-articular glucocorticoids</u>		
<u>Kenalog® (triamcinolone acetonide)</u>	<u>40 mg (1 mL) for large joints</u>	<u>80 mg/treatment</u>
<u>Aristospan® (triamcinolone hexacetonide)</u>	<u>10-20 mg for large joints</u>	<u>20 mg/treatment</u>
<u>methylprednisolone acetate (Depo-Medrol®)</u>	<u>20-80 mg for large joints</u>	<u>80 mg/treatment</u>
<u>hydrocortisone acetate</u>	<u>25-50 mg for large joints</u>	<u>75 mg/treatment</u>
<u>Zilretta® (triamcinolone acetonide)</u>	<u>32 mg (5 mL) for large joints</u>	<u>32 mg/treatment</u>

*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.*

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#### Appendix C: Contraindications/Boxed Warnings

- Contraindication(s):
  - Durolane, Euflexxa, Gelsyn-3, GenVisc-850, Hyalgan, Supartz, Supartz FX, Synjoynt, Triluron, TriVisc, VISCO-3, Gel-One, Hymovis, Orthovisc, Monovisc, Synvisc, Synvisc One:
    - Known hypersensitivity to hyaluronan preparations
    - Patients with knee joint infections, infections or skin disease in the area of the injection site
  - Hymovis, Monovisc, Orthovisc: do not administer to patients with known hypersensitivity to gram positive bacterial proteins
  - Monovisc: do not administer to patients with known systemic bleeding disorders
- Boxed warning(s): none reported

#### Appendix D: General Information

- Examples of documented positive but inadequate response to intra-articular glucocorticoid injections include but are not limited to the following: 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.
- Per the 2014 Osteoarthritis Research Society International guidelines, hyaluronate derivatives are not appropriate for multiple joint OA subtypes or joint OA other than the knee.
  - In DeGroot et al., single hyaluronic acid was compared to saline injection in a small RCT (N=64). At 6 and 12 weeks, there were no significant differences in improvement between the two groups on the American Orthopedic Foot and Ankle Society clinical rating score, the Ankle Osteoarthritis Scale score, or the patient-reported visual analog pain scale. Migliore et al., conducted a review of seven studies for ankle OA that showed mixed results, but were unable to complete a meta-analysis due to use of study design limitations (e.g., inconsistent use of primary endpoints, varying comparators, small sample size) leading to study heterogeneity.
  - Richette et al. conducted a multicenter, randomized, placebo-controlled trial in hip OA. At 3 months, hyaluronic acid was not more effective than placebo with a treatment difference in pain score of -0.15 (95% CI -11.04, 10.74). Responder rates were 33.3% for hyaluronic acid and 32.6% for placebo (p = 0.94). Additionally, analgesics were taken by 81% of study days by patients on placebo, and 88% of patients in the hyaluronic acid group.
- There are no studies that have evaluated the efficacy of hyaluronate derivatives in patients with OA and coexistent other inflammatory conditions such as rheumatoid arthritis.
- There is no data to suggest efficacy of hyaluronate derivatives in patients who have had total knee arthroplasty in the targeted knee.

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#### V. Dosage and Administration

<u>Drug Name</u>	<u>Active Ingredient</u>	<u>Dose of Active Ingredient per Injection</u>	<u>Treatment Cycle*</u>
<u>Durolane</u>	<u>Hyaluronic acid</u>	<u>60 mg (3 mL)</u>	<u>1 injection</u>
<u>Euflexxa</u>	<u>Sodium hyaluronate</u>	<u>20 mg (2 mL)</u>	<u>3 injections</u>
<u>Gel-One</u>	<u>Cross-linked sodium hyaluronate</u>	<u>30 mg (3 mL)</u>	<u>1 injection</u>
<u>Gelsyn-3</u>	<u>Sodium hyaluronate</u>	<u>16.8 mg (2 mL)</u>	<u>3 injections</u>
<u>GenVisc 850</u>	<u>Sodium hyaluronate</u>	<u>25 mg (2.5 mL)</u>	<u>3-5 injections</u>
<u>Hyalgan</u>	<u>Sodium hyaluronate (Hyalectin®)</u>	<u>20 mg (2 mL)</u>	<u>3-5 injections</u>
<u>Hymovis</u>	<u>Sodium hyaluronate (HYADD®4)</u>	<u>24 mg (3 mL)</u>	<u>2 injections</u>
<u>Monovisc†</u>	<u>Cross-linked sodium hyaluronate</u>	<u>88 mg (4 mL)</u>	<u>1 injection</u>
<u>Orthovisc‡</u>	<u>Sodium hyaluronate</u>	<u>30 mg (2 mL)</u>	<u>3-4 injections</u>
<u>Supartz, Supartz FX</u>	<u>Sodium hyaluronate</u>	<u>25 mg (2.5 mL)</u>	<u>3-5 injections</u>
<u>Synjoynvnt</u>	<u>Sodium hyaluronate</u>	<u>20 mg (2 mL)</u>	<u>3 injections</u>
<u>Synvisc</u>	<u>Cross-linked hylan G-F 20 (hylan A and hylan B polymers)</u>	<u>16 mg (2 mL)</u>	<u>3 injections</u>
<u>Synvisc One</u>	<u>Cross-linked hylan G-F 20 (hylan A and hylan B polymers)</u>	<u>48 mg (6 mL)</u>	<u>1 injection</u>
<u>Triluron</u>	<u>Sodium hyaluronate</u>	<u>20 mg (2 mL)</u>	<u>3 injections</u>
<u>TriVisc</u>	<u>Sodium hyaluronate</u>	<u>25 mg (2.5 mL)</u>	<u>3 injections</u>
<u>VISCO-3</u>	<u>Sodium hyaluronate</u>	<u>25 mg (2.5 mL)</u>	<u>3 injections</u>

\*Treatment cycle: Total number of injection per cycle per knee (if treating both knees, double the number of injections per treatment cycle).

†Per product label, one injection of Monovisc is equivalent to 3 injections of Orthovisc.

#### VI. Product Availability

<u>Drug Name</u>	<u>Active Ingredient</u>	<u>Availability**</u>
<u>Durolane</u>	<u>Hyaluronic acid</u>	<u>3 mL syringe</u>
<u>Euflexxa</u>	<u>Sodium hyaluronate</u>	<u>2.25 mL syringe</u>
<u>Gel-One</u>	<u>Cross-linked sodium hyaluronate</u>	<u>3 mL syringe</u>
<u>GenVisc 850</u>	<u>Sodium hyaluronate</u>	<u>3 mL syringe</u>
<u>Gelsyn-3</u>	<u>Sodium hyaluronate</u>	<u>2.25 mL syringe</u>
<u>Hyalgan</u>	<u>Sodium hyaluronate (Hyalectin®)</u>	<u>2 mL vial or 2 mL syringe</u>
<u>Hymovis</u>	<u>Sodium hyaluronate (HYADD®4)</u>	<u>5 mL syringe</u>
<u>Monovisc‡</u>	<u>Cross-linked sodium hyaluronate</u>	<u>5 mL syringe</u>
<u>Orthovisc‡</u>	<u>Sodium hyaluronate</u>	<u>3 mL syringe</u>

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<u>Drug Name</u>	<u>Active Ingredient</u>	<u>Availability**</u>
<u>Supartz</u>	<u>Sodium hyaluronate</u>	<u>2.5 mL syringe</u>
<u>Supartz FX</u>	<u>Sodium hyaluronate</u>	<u>2.5 mL syringe</u>
<u>Synjoynt</u>	<u>Sodium hyaluronate</u>	<u>3 mL syringe</u>
<u>Synvisc</u>	<u>Cross-linked hylan G-F 20 (hylan A and hylan B polymers)</u>	<u>2.25 mL syringe</u>
<u>Synvisc One</u>	<u>Cross-linked hylan G-F 20 (hylan A and hylan B polymers)</u>	<u>10 mL syringe</u>
<u>TriVisc</u>	<u>Sodium hyaluronate</u>	<u>3 mL syringe</u>
<u>Trilon</u>	<u>Sodium hyaluronate</u>	<u>2 mL syringe or</u> <u>2 mL vial</u>
<u>VISCO-3</u>	<u>Sodium hyaluronate</u>	<u>2.5 mL syringe</u>

\*\* All syringes/vials are single-use (i.e., one injection/one knee); syringes are pre-filled.

‡Per product label, one injection of Monovisc is equivalent to 3 injections of Orthovisc.

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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-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

<u>HCPCS Codes</u>	<u>Description</u>
<u>J7318</u>	<u>Hyaluronan or derivative, Durolane, for intra-articular injection, 1 mg</u>
<u>J7320</u>	<u>Hyaluronan or derivative, GenVisc 850, for intra-articular injection, 1 mg</u>
<u>J7321</u>	<u>Hyaluronan or derivative, Hyalgan or Supartz FX, for intra-articular injection, per dose (Hyalgan dose is 20 mg/2 mL, Supartz dose is 25 mg/2.5 mL)</u>
<u>J7322</u>	<u>Hyaluronan or derivative, Hymovis, for intra-articular injection, 1 mg</u>
<u>J7323</u>	<u>Hyaluronan or derivative, Euflexxa, for intra-articular injection, per dose</u>
<u>J7324</u>	<u>Hyaluronan or derivative, Orthovisc, for intra-articular injection, per dose</u>
<u>J7325</u>	<u>Hyaluronan or derivative, Synvisc or Synvisc-One, for intra-articular injection, 1 mg</u>
<u>J7326</u>	<u>Hyaluronan or derivative, Gel-One, for intra-articular injection, per dose</u>
<u>J7327</u>	<u>Hyaluronan or derivative, Monovisc, for intra-articular injection, per dose</u>
<u>J7328</u>	<u>Hyaluronan or derivative, Gel-Syn, for intra-articular injection, 0.1 mg</u>
<u>J7329</u>	<u>Hyaluronan or derivative, Trivisc, for intra-articular injection, 1 mg</u>
<u>J7331</u>	<u>Hyaluronan or derivative, Synjoynnt, for intra-articular injection, 1 mg</u>
<u>J7332</u>	<u>Hyaluronan or derivative, Triluron, for intra-articular injection, 1 mg</u>
<u>J7333</u>	<u>Hyaluronan or derivative, Visco-3, for intra-articular injection, per dose</u>



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<u>Reviews, Revisions, and Approvals</u>	<u>Date</u>	<u>LDH Approval Date</u>
<u>Converted corporate to local policy</u>	<u>04.22</u>	

#### 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.

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 LHCC administrative policies and procedures.

This clinical policy is effective as of the date determined by LHCC. 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. LHCC 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 LHCC has no control or right of control. Providers are not agents or employees of LHCC.

## CLINICAL POLICY

### Hyaluronate Derivatives

**This clinical policy is the property of LHCC. 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.**

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