

Hyvisc®

Hyaluronate sodium

Description

Hyvisc® is a clear, colorless, viscous fluid contained in a 5 mL disposable syringe, as a single 2 mL dose. Chemically hyaluronic acid is a high molecular weight mucopolysaccharide composed of repeating disaccharide units, each unit consisting of D-glucuronic acid and N-acetyl-D-glucosamine. Each mL of Hyvisc injections contains 11 mg hyaluronate sodium, 8.47 mg of sodium chloride, USP, in sterile water for injection, USP q.s.

Features

High molecular weight.

Highly viscous, extremely pure.

Highly purified fraction extracted from rooster combs.

Benefits

Safe for use in pregnant mares.

Post-surgical use improves joint function in arthritic joints.

Synovial fluid viscosity increases markedly after single 2 mL injection.

Advantages

Maintains viscoelasticity and lubrication properties similar to naturally occurring synovial fluid.

Dosage & Administration

The recommended dose of Hyvisc is 2 mL (22 mg) given to horses intra-articularly in small and medium-sized joints (carpal, fetlock). In larger joints (hock), the dosage is 4 mL (44 mg). Treatment may be repeated at weekly intervals for a total of three treatments. As with any intra-articular injection, aseptic technique is used.

Precautions

Store under refrigerated conditions. Protect from freezing and avoid excessive heat.

Used or partially used syringes should be crushed and disposed of in an appropriate landfill.

Federal law restricts this drug to use by or, on the order of a licensed veterinarian.

Uses

Hyvisc is recommended for treatment of joint dysfunction in horses due to non-infectious synovitis associated with equine osteoarthritis.

Warning

Not for use in horses intended for food.

Do not administer intravascularly.

Do not use if numerous small air bubbles are present throughout the solution.

See package insert for complete information.

Product Information

Name	Code	Size
Hyvisc®	413-015	2 mL prefilled syringe

Highlights

- Larger calibrated syringe for easier handling.
- Contains 22 mg (11 mg per mL) of hyaluronate sodium.
- 2 mL dose packaged in a 5 mL disposable syringe.





Hyvisc®

(hyaluronate sodium)

For intra-articular injection in horses only.

11 mg/mL
STERILE INJECTION

DESCRIPTION: Hyvisc® (hyaluronate sodium) is a clear, colorless, viscous fluid contained in a 5mL disposable syringe, as a single 2 mL dose. Chemically, hyaluronic acid is a high molecular weight mucopolysaccharide composed of repeating di-saccharide units, each unit consisting of D-glucuronic acid and N-acetyl-D-glucosamine. Each mL of Hyvisc® Injection contains 11 mg of hyaluronate sodium and 8.47 mg of sodium chloride, U.S.P., in sterile water for injection, U.S.P., q.s.

ACTIONS: Hyaluronate sodium is a natural constituent of connective tissue and synovial fluid in both man and animals. In synovial fluid, hyaluronate sodium confers viscoelastic as well as lubricating properties (1-2). In connective tissue, hyaluronate sodium specifically interacts with cartilage proteoglycans to form stable aggregates (3-5). The mechanism of action by which exogenous hyaluronate sodium exerts its therapeutic effect in arthritic joints is not known at this time.

INDICATIONS: Hyvisc® (hyaluronate sodium) Injection is recommended for the treatment of joint dysfunction in horses due to non-infectious synovitis associated with equine osteoarthritis.

CONTRAINDICATIONS: There are no known contraindications to the use of Hyvisc® (hyaluronate sodium) Injection.

WARNINGS: Not for use in horses intended for food. Hyvisc® (hyaluronate sodium) Injection must not be administered intravascularly.

ADVERSE REACTIONS: In the clinical trial with Hyvisc® (hyaluronate sodium) Injection, a mild, transient post-injection inflammatory response in the joint was reported in 12% of the cases treated. There were no other side effects.

DOSAGE AND ADMINISTRATION: The recommended dose of Hyvisc® (hyaluronate sodium) Injection is 2 mL (22 mg) given to horses intra-articularly in small and medium-sized joints (carpal, fetlock). In larger joints (hock), the dosage is 4 mL (44 mg). Treatment may be repeated at weekly intervals for a total of three treatments. As with any intra-articular injection, aseptic technique is used. The following are suggested use directions regardless of the type of joint to be treated.

- Carefully diagnose each case using routine methods. The origin of lameness should be pinpointed to be within a specific joint or joints (e.g., lameness is localized to a specific joint using intra-articular anesthesia). Radiographs or other diagnostic aids should not reveal recent fractures or other serious abnormalities which would suggest a poor prognosis.
- Aseptically remove as much synovial fluid from the afflicted joint as can be easily withdrawn.
- Remove tip cap from the Hyvisc® syringe and inject through a sterile needle, 20 gauge or larger.
- Inject a single 2 mL dose (one syringe) of Hyvisc® into each joint to be treated; if the joint being treated is the hock joint,

inject 4 mL (two syringes). Since Hyvisc® is a viscous fluid, care should be exercised on injection so as not to dislodge the needle from the syringe.

- Two or four days of rest or light exercise is recommended before resumption of normal activity. Improvement of joint function should be seen within one to two weeks after Hyvisc® Injection.

As with any intra-articular injection, a mild inflammatory response (tenderness, heat and swelling) may be seen in the joint following the Hyvisc® Injection. This response is self-limiting, but may last from two to five days after treatment. If inflammation is excessive or severe, the possibility of infection should be considered and appropriate antibiotic therapy instituted.

CAUTION: Federal Law restricts this drug to use by or on the order of a licensed veterinarian.

Used or partially used syringes should be crushed and disposed of in an appropriate landfill.

Do not use if numerous small air bubbles are present throughout the solution.

STORAGE: Store under refrigerated conditions. Protect from freezing and avoid excessive heat.

HOW SUPPLIED: Hyvisc® (hyaluronate sodium) Injection, 11 mg/mL, is available in 2 mL prefilled, disposable syringes individually packaged.

SAFETY MARGIN IN HORSES: In toxicity studies of Hyvisc® (hyaluronate sodium) Injection in horses, intra-articular doses at one, three, and five times the recommended dose once weekly for three consecutive weeks did not result in any drug related local or systemic toxic effects. The mild transient post-injection inflammatory response observed within the joints of some horses was qualitatively and quantitatively similar to that detected in the physiologic saline injected controls. In a reproductive study in mares, 16 mL of Hyvisc® (10 mg/mL) injected intramuscularly or subcutaneously once or twice during the second or third stage of pregnancy resulted in no adverse effects on the mares or newborn foals.

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Boehringer Ingelheim Vetmedica, Inc.

2621 North Belt Highway • St. Joseph, MO 64506-2002

Information 800-325-9167 • Sales Service 800-325-9167 • Fax 816-236-2717

www.bi-vetmedica.com

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