#### ANTIVENIN- latrodectus mactans Merck Sharp & Dohme LLC

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#### ANTIVENIN (LATRODECTUS MACTANS) (Black Widow Spider Antivenin) Equine Origin

#### DESCRIPTION

Antivenin (*Latrodectus mactans*) is a sterile, non-pyrogenic preparation derived by drying a frozen solution of specific venom-neutralizing globulins obtained from the blood serum of healthy horses immunized against venom of black widow spiders (*Latrodectus mactans*). It is standardized by biological assay on mice, in terms of one dose of Antivenin neutralizing the venom in not less than 6000 mouse LD<sub>50</sub> of *Latrodectus mactans*. Thimerosal (mercury derivative) 1:10,000 is added as a preservative. When constituted as specified, it is opalescent, ranging in color from light (straw) to very dark (iced tea), and contains not more than 20.0 percent of solids.

Each single-dose vial contains not less than 6000 Antivenin units. One unit of Antivenin will neutralize one average mouse lethal dose of black widow spider venom when the Antivenin and the venom are injected simultaneously in mice under suitable conditions.

## **CLINICAL PHARMACOLOGY**

The pharmacological mode of action is unknown and metabolic and pharmacokinetic data in humans are unavailable.

### **INDICATIONS AND USAGE**

Antivenin (*Latrodectus mactans*) is used to treat patients with symptoms due to bites by the black widow spider (*Latrodectus mactans*). Early use of the Antivenin is emphasized for prompt relief.

Local muscular cramps begin from 15 minutes to several hours after the bite which usually produces a sharp pain similar to that caused by puncture with a needle. The exact sequence of symptoms depends somewhat on the location of the bite. The venom acts on the myoneural junctions or on the nerve endings, causing an ascending motor paralysis or destruction of the peripheral nerve endings. The groups of muscles most frequently affected at first are those of the thigh, shoulder, and back. After a varying length of time, the pain becomes more severe, spreading to the abdomen, and weakness and tremor usually develop. The abdominal muscles assume a boardlike rigidity, but tenderness is slight. Respiration is thoracic. The patient is restless and anxious. Feeble pulse, cold, clammy skin, labored breathing and speech, light stupor, and delirium may occur. Convulsions also may occur, particularly in small children. The temperature may be normal or slightly elevated. Urinary retention, shock, cyanosis, nausea and vomiting, insomnia, and cold sweats also have been reported. The syndrome following the bite of the black widow spider may be confused easily with any medical or surgical condition with acute abdominal symptoms.

The symptoms of black widow spider bite increase in severity for several hours, perhaps a day, and then very slowly become less severe, gradually passing off in the course of two or three days except in fatal cases. Residual symptoms such as general weakness, tingling, nervousness, and transient muscle spasm may persist for weeks or months after recovery from the acute stage.

If possible, the patient should be hospitalized. Other additional measures giving greatest relief are prolonged warm baths and intravenous injection of 10 mL of 10 percent solution of calcium gluconate repeated as necessary to control muscle pain. Morphine also may be required to control pain. Barbiturates may be used for extreme restlessness. However, as the venom is a neurotoxin, it can cause respiratory paralysis. This must be borne in mind when considering use of morphine or a barbiturate. Adrenocorticosteroids have been used with varying degrees of success. Supportive therapy is indicated by the condition of the patient. Local treatment of the site of the bite is of no value. Nothing is gained by applying a tourniquet or by attempting to remove venom from the site of the bite by incision and suction.

In otherwise healthy individuals between the ages of 16 and 60, the use of Antivenin may be deferred and treatment with muscle relaxants may be considered.

## WARNINGS

Prior to treatment with any product prepared from horse serum, a careful review of the patient's history should be taken emphasizing prior exposure to horse serum or any allergies. Serum sickness and even death could result from the use of horse serum in a sensitive patient. A skin or conjunctival test should be performed prior to administration of Antivenin. However, an anaphylactic reaction to Antivenin may occur even following a negative skin or conjunctival test (see ADVERSE REACTIONS).

*Skin test:* Inject into (not under) the skin not more than 0.02 mL of the test material (1:10 dilution of normal horse serum in physiologic saline). Evaluate result in 10 minutes. A positive reaction is an urticarial wheal surrounded by a zone of erythema. A control test using Sodium Chloride Injection facilitates interpretation of the results.

*Conjunctival test:* For adults instill into the conjunctival sac one drop of a 1:10 dilution of horse serum and for children one drop of 1:100 dilution. Itching of the eye and reddening of the conjunctiva indicate a positive reaction, usually within 10 minutes.

Patients should be observed for serum sickness for an average of 8 to 12 days following administration of Antivenin.

Desensitization should be attempted only when the administration of Antivenin is considered necessary to save life. Epinephrine must be available in case of untoward reaction.

*Desensitization:* If the history is positive or the results of the sensitivity tests are mildly or questionably positive, Antivenin should be administered as follows to reduce the risk of an immediate severe allergic reaction:

- 1. In separate sterile vials or syringes prepare 1:10 or 1:100 dilutions of Antivenin in Sodium Chloride for Injection.
- 2. Allow at least 15 but preferably 30 minutes between injections and only proceed with

the next dose if no reactions occurred following the previous dose.

- 3. Using a tuberculin syringe, inject subcutaneously 0.1, 0.2 and 0.5 mL of the 1:100 dilution at 15 or 30 minute intervals; repeat with the 1:10 dilution, and finally the undiluted Antivenin.
- 4. If there is a reaction after any of the injections, place a tourniquet proximal to the sites of injection and administer epinephrine, 1:1000 (0.3 to 1.0 mL subcutaneously, 0.05 to 0.1 mL intravenously), proximal to the tourniquet or into another extremity. Wait at least 30 minutes before giving another injection of Antivenin, the amount of which should be the same as the last one not evoking a reaction.
- 5. If no reaction has occurred after 0.5 mL of undiluted Antivenin has been given, it is probably safe to continue the dose at 15 minute intervals until the entire dose has been injected.

# PRECAUTIONS

### Patients with Asthma

Anaphylactic reactions and death have been reported in patients with a medical history of asthma.

### Carcinogenesis, Mutagenesis, Impairment of Fertility

No long term studies in animals have been performed to evaluate the potential for carcinogenesis, mutagenesis, or impairment of fertility.

## Pregnancy

Animal reproduction studies have not been conducted with Black Widow Spider Antivenin. It is also not known whether Black Widow Spider Antivenin can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Black Widow Spider Antivenin should be given to a pregnant woman only if clearly needed.

### **Nursing Mothers**

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Black Widow Spider Antivenin is administered to a nursing woman.

## **Pediatric Use**

Controlled clinical studies for safety and effectiveness in children have not been conducted.

## Geriatric Use

Reported clinical experience has not identified differences in responses between the elderly and younger patients. Because of the increased risk of complications from envenomation in elderly patients, the standard of care described in the literature suggests that patients older than 60 years of age should be given Antivenin as a preferred initial therapy (see INDICATIONS AND USAGE).

## **ADVERSE REACTIONS**

The following adverse reactions have been reported following the use of Antivenin: Hypersensitivity reactions including anaphylaxis and serum sickness. Muscle cramps have also been reported.

## **DOSAGE AND ADMINISTRATION**

Using a sterile syringe, inject 2.5 mL of Sterile Water for Injection into the single-dose vial of Antivenin. With the needle still in the rubber stopper, shake the vial to dissolve the contents completely.

Parenteral drug products should be inspected visually for particulate matter prior to administration, whenever solution and container permit (see DESCRIPTION).

The dose for adults and children is the entire contents of a restored single-dose vial (2.5 mL) of Antivenin. It may be given intramuscularly, preferably in the region of the anterolateral thigh so that a tourniquet may be applied in the event of a systemic reaction. Symptoms usually subside in 1 to 3 hours. Although one dose of Antivenin usually is adequate, a second dose may be necessary in some cases. Discard unused portion.

Antivenin also may be given intravenously in 10 to 50 mL of saline solution over a 15 minute period. It is the preferred route in severe cases, or when the patient is under 12, or in shock. One restored single-dose vial usually is enough. Discard unused portion.

## HOW SUPPLIED

No. 5424 — Antivenin (*Latrodectus mactans*), equine origin is a white to gray crystalline powder, each single-dose vial containing not less than 6000 Antivenin units. Thimerosal (mercury derivative) 1:10,000 is added as preservative, **NDC** 0006-5424-02. A single-dose 1 mL vial of normal horse serum (1:10 dilution) for sensitivity testing is also included. Thimerosal (mercury derivative) 1:10,000 is added as preservative.

## Storage

Antivenin must be stored and shipped at 2-8°C (36-46°F). When reconstituted as directed, the color of Antivenin ranges from light (straw) to very dark (iced tea), but the color has no effect on potency. *Do not freeze.* 

## REFERENCES

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Russell, F. E.: Injuries by Venomous Animals in the United States, J. Amer. Med. Ass. *177:* 903-907, Sept. 30, 1961.

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For patent information: www.msd.com/research/patent

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uspi-mk9001-i-2304r024

# This is a representative sample of the packaging. Please see How Supplied section for a complete list of available packaging.

#### **PRINCIPAL DISPLAY PANEL - Kit Carton**

**NDC** 0006-5424-02

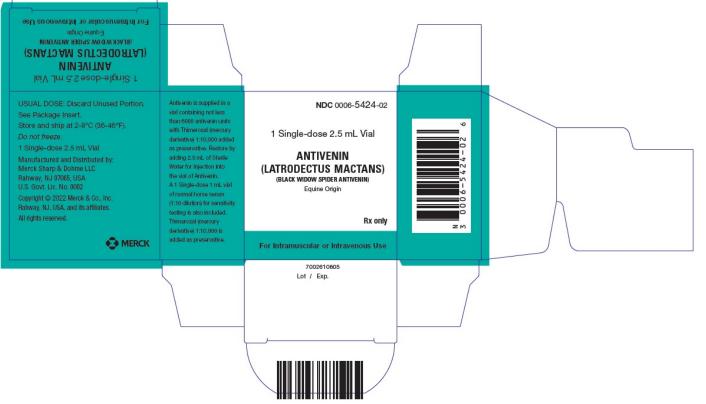
1 Single-dose 2.5 mL Vial

ANTIVENIN (LATRODECTUS MACTANS) (BLACK WIDOW SPIDER ANTIVENIN) Equine Origin

Rx only

For Intramuscular or Intravenous Use





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Labeler - Merck Sharp & Dohme LLC (118446553)

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