

**ATROPINE SULFATE- atropine sulfate injection, solution**  
**HF Acquisition Co., LLC, DBA Health First**

*Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click here.*

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**ATROPINE SULFATE INJECTION, USP 0.5mg (0.1 mg/mL) SYR, 5mL**

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Sections or subsections omitted from the full prescribing information are not listed.

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use ATROPINE SULFATE INJECTION safely and effectively. See full prescribing information for ATROPINE SULFATE INJECTION.

ATROPINE SULFATE INJECTION, for intravenous use

Initial U.S. Approval: 1960

## INDICATIONS AND USAGE

Atropine is a muscarinic antagonist indicated for temporary blockade of severe or life threatening muscarinic effects. ( 1)

## DOSAGE AND ADMINISTRATION

For intravenous administration. ( 2-2.1, 2-2.3)

Titrate according to heart rate, PR interval, blood pressure and symptoms. ( 2-2.1)

Adult dosage

-

Antisialagogue or for antivasal effects: Initial single dose of 0.5 mg to 1 mg. ( 2- 2.2)

-

Antidote for organophosphorus or muscarinic mushroom poisoning: Initial single dose of 2 mg to 3 mg, repeated every 20–30 minutes. ( 2-2.2)

-

Bradyasystolic cardiac arrest: 1 mg dose, repeated every 3–5 minutes if asystole persists. ( 2-2.2)

Patients with Coronary Artery Disease: Total dose should not exceed 0.03 mg/kg to 0.04 mg/kg. ( 5-5.1)

## DOSAGE FORMS AND STRENGTHS

0.1 mg/mL injection in LifeShield™ Abboject™ Glass Syringe ( 3)

## CONTRAINDICATIONS

None. ( 4)

## WARNINGS AND PRECAUTIONS

Tachycardia ( 5-5.1)

Glaucoma ( 5-5.2)

Pyloric obstruction ( 5-5.3)

Worsening urinary retention ( 5-5.4)

Viscid bronchial plugs ( 5-5.5)

## ADVERSE REACTIONS

Most adverse reactions are directly related to atropine's antimuscarinic action. Dryness of the mouth, blurred vision, photophobia and tachycardia commonly occur with chronic administration of therapeutic doses. ( 6)

To report SUSPECTED ADVERSE REACTIONS, contact Hospira, Inc. at 1-800-441-4100, or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

## DRUG INTERACTIONS

Mexiletine: Decreases rate of mexiletine absorption. ( 7-7.1)

Revised: 3/2018

## 1 INDICATIONS & USAGE

Atropine Sulfate Injection, USP, is indicated for temporary blockade of severe or life threatening muscarinic effects, e.g., as an antisialagogue, an antivagal agent, an antidote for organophosphorus or muscarinic mushroom poisoning, and to treat bradycardic cardiac arrest.

## 2 DOSAGE & ADMINISTRATION

### 2.1 General Administration

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Do not administer unless solution is clear and seal is intact. Discard unused portion.

For intravenous administration.

Titrate based on heart rate, PR interval, blood pressure and symptoms.

### 2.2 Adult Dosage

Table 1: Recommended Dosage

Use	Dose (adults)	Repeat
Antisialagogue or other anticholinergic	0.5 to 1 mg	1–2 hours
Organophosphorus or muscarinic mushroom poisoning	2 to 3 mg	20–30 minutes
Bradycardic cardiac arrest	1 mg	3–5 minutes; 3 mg maximum total dose

### 2.3 Pediatric Dosage

Dosing in pediatric populations has not been well studied. Usual initial dose is 0.01 to 0.03 mg/kg.

## 3 DOSAGE FORMS & STRENGTHS

Injection: 0.1 mg/mL in LifeShield™ Abboject™ Glass Syringes

## **4 CONTRAINDICATIONS**

None.

## **5 WARNINGS AND PRECAUTIONS**

### **5.1 Tachycardia**

When the recurrent use of atropine is essential in patients with coronary artery disease, the total dose should be restricted to 2 to 3 mg (maximum 0.03 to 0.04 mg/kg) to avoid the detrimental effects of atropine-induced tachycardia on myocardial oxygen demand.

### **5.2 Acute Glaucoma**

Atropine may precipitate acute glaucoma.

### **5.3 Pyloric Obstruction**

Atropine may convert partial organic pyloric stenosis into complete obstruction.

### **5.4 Complete Urinary Retention**

Atropine may lead to complete urinary retention in patients with prostatic hypertrophy.

### **5.5 Viscid Plugs**

Atropine may cause inspissation of bronchial secretions and formation of viscid plugs in patients with chronic lung disease.

## **6 ADVERSE REACTIONS**

The following adverse reactions have been identified during post-approval use of atropine sulfate. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Most of the side effects of atropine are directly related to its antimuscarinic action. Dryness of the mouth, blurred vision, photophobia and tachycardia commonly occur. Anhidrosis can produce heat intolerance. Constipation and difficulty in micturition may occur in elderly patients. Occasional hypersensitivity reactions have been observed, especially skin rashes which in some instances progressed to exfoliation.

## **7 DRUG INTERACTIONS**

### **7.1 Mexiletine**

Atropine Sulfate Injection decreased the rate of mexiletine absorption without altering the relative oral bioavailability; this delay in mexiletine absorption was reversed by the combination of atropine and intravenous metoclopramide during pretreatment for anesthesia.

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

Animal reproduction studies have not been conducted with atropine. It also is not known whether atropine can cause fetal harm when given to a pregnant woman or can affect reproduction capacity.

### **8.3 Nursing Mothers**

Trace amounts of atropine was found in breast milk. The clinical impact of this is not known.

### **8.4 Pediatric Use**

Recommendations for use in pediatric patients are not based on clinical trials.

### **8.5 Geriatric Use**

An evaluation of current literature revealed no clinical experience identifying differences in response between elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

## **10 OVERDOSAGE**

Excessive dosing may cause palpitation, dilated pupils, difficulty in swallowing, hot dry skin, thirst, dizziness, restlessness, tremor, fatigue and ataxia. Toxic doses lead to restlessness and excitement, hallucinations, delirium and coma. Depression and circulatory collapse occur only with severe intoxication. In such cases, blood pressure declines and death due to respiratory failure may ensue following paralysis and coma.

The fatal adult dose of atropine is not known. In pediatric populations, 10 mg or less may be fatal.

In the event of toxic overdosage, a short acting barbiturate or diazepam may be given as needed to control marked excitement and convulsions. Large doses for sedation should be avoided because central depressant action may coincide with the depression occurring late in atropine poisoning. Central stimulants are not recommended.

Physostigmine, given as an atropine antidote by slow intravenous injection of 1 to 4 mg (0.5 to 1 mg in pediatric populations), rapidly abolishes delirium and coma caused by large doses of atropine. Since physostigmine is rapidly destroyed, the patient may again lapse into coma after one to two hours, and repeated doses may be required.

Artificial respiration with oxygen may be necessary. Ice bags and alcohol sponges help to reduce fever, especially in pediatric populations.

Atropine is not removed by dialysis.

## **11 DESCRIPTION**

Atropine Sulfate Injection, USP is a sterile, nonpyrogenic isotonic solution of atropine sulfate monohydrate in water for injection with sodium chloride sufficient to render the

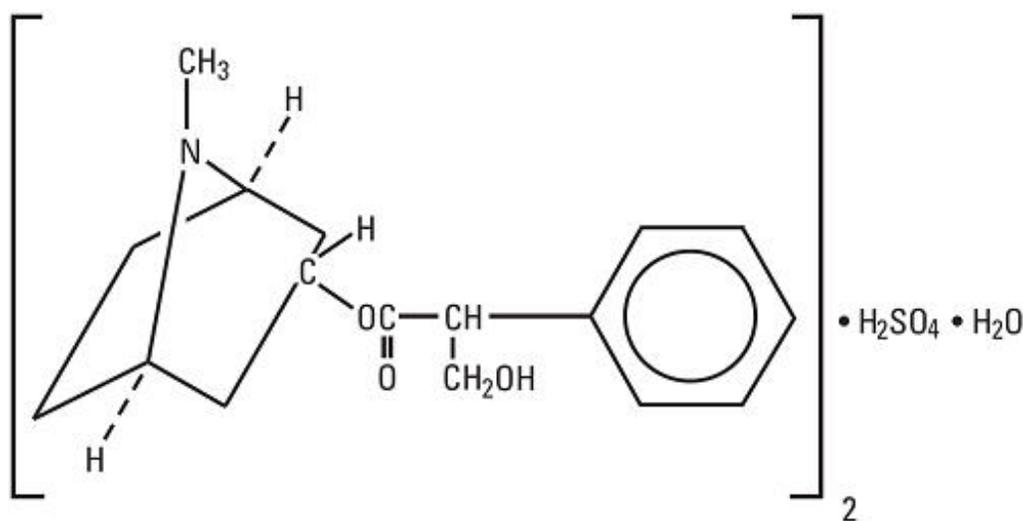
solution isotonic. It is administered parenterally by intravenous injection.

Each milliliter (mL) contains 0.1 mg of atropine sulfate monohydrate equivalent to 0.083 mg of atropine, and sodium chloride, 9 mg. May contain sodium hydroxide and/or sulfuric acid for pH adjustment 0.308 mOsmol/mL (calc.). pH 3.0 to 6.5.

Sodium chloride added to render the solution isotonic for injection of the active ingredient is present in amounts insufficient to affect serum electrolyte balance of sodium (Na<sup>+</sup>) and chloride (Cl<sup>-</sup>) ions.

The solution contains no bacteriostat, antimicrobial agent or added buffer (except for pH adjustment) and is intended for use only as a single-dose injection. When smaller doses are required the unused portion should be discarded.

Atropine Sulfate, USP is chemically designated 1 $\alpha$  H, 5 $\alpha$  H-Tropan-3- $\alpha$ -ol ( $\pm$ )-tropate (ester), sulfate (2:1) (salt) monohydrate, (C<sub>17</sub>H<sub>23</sub>NO<sub>3</sub>)<sub>2</sub> • H<sub>2</sub>SO<sub>4</sub> • H<sub>2</sub>O, colorless crystals or white crystalline powder very soluble in water. It has the following structural formula:



Atropine, a naturally occurring belladonna alkaloid, is a racemic mixture of equal parts of d- and l-hyocyamine, whose activity is due almost entirely to the levo isomer of the drug.

Sodium Chloride, USP is chemically designated NaCl, a white crystalline powder freely soluble in water.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Atropine is an antimuscarinic agent since it antagonizes the muscarine-like actions of acetylcholine and other choline esters.

Atropine inhibits the muscarinic actions of acetylcholine on structures innervated by postganglionic cholinergic nerves, and on smooth muscles which respond to endogenous acetylcholine but are not so innervated. As with other antimuscarinic agents, the major action of atropine is a competitive or surmountable antagonism which can be overcome by increasing the concentration of acetylcholine at receptor sites of the effector organ (e.g., by using anticholinesterase agents which inhibit the enzymatic

destruction of acetylcholine). The receptors antagonized by atropine are the peripheral structures that are stimulated or inhibited by muscarine (i.e., exocrine glands and smooth and cardiac muscle). Responses to postganglionic cholinergic nerve stimulation also may be inhibited by atropine but this occurs less readily than with responses to injected (exogenous) choline esters.

## 12.2 Pharmacodynamics

Atropine-induced parasympathetic inhibition may be preceded by a transient phase of stimulation, especially on the heart where small doses first slow the rate before characteristic tachycardia develops due to paralysis of vagal control. Atropine exerts a more potent and prolonged effect on heart, intestine and bronchial muscle than scopolamine, but its action on the iris, ciliary body and certain secretory glands is weaker than that of scopolamine. Unlike the latter, atropine in clinical doses does not depress the central nervous system but may stimulate the medulla and higher cerebral centers. Although mild vagal excitation occurs, the increased respiratory rate and (sometimes) increased depth of respiration produced by atropine are more probably the result of bronchiolar dilatation. Accordingly, atropine is an unreliable respiratory stimulant and large or repeated doses may depress respiration.

Adequate doses of atropine abolish various types of reflex vagal cardiac slowing or asystole. The drug also prevents or abolishes bradycardia or asystole produced by injection of choline esters, anticholinesterase agents or other parasympathomimetic drugs, and cardiac arrest produced by stimulation of the vagus. Atropine also may lessen the degree of partial heart block when vagal activity is an etiologic factor. In some patients with complete heart block, the idioventricular rate may be accelerated by atropine; in others, the rate is stabilized. Occasionally a large dose may cause atrioventricular (A-V) block and nodal rhythm.

Atropine Sulfate Injection, USP in clinical doses counteracts the peripheral dilatation and abrupt decrease in blood pressure produced by choline esters. However, when given by itself, atropine does not exert a striking or uniform effect on blood vessels or blood pressure. Systemic doses slightly raise systolic and lower diastolic pressures and can produce significant postural hypotension. Such doses also slightly increase cardiac output and decrease central venous pressure. Occasionally, therapeutic doses dilate cutaneous blood vessels, particularly in the "blush" area (atropine flush), and may cause atropine "fever" due to suppression of sweat gland activity in infants and small children.

The effects of intravenous atropine on heart rate (maximum heart rate) and saliva flow (minimum flow) after intravenous administration (rapid, constant infusion over 3 min.) are delayed by 7 to 8 minutes after drug administration and both effects are non-linearly related to the amount of drug in the peripheral compartment. Changes in plasma atropine levels following intramuscular administration (0.5 to 4 mg doses) and heart rate are closely overlapped but the time course of the changes in atropine levels and behavioral impairment indicates that pharmacokinetics is not the primary rate-limiting mechanism for the central nervous system effect of atropine.

## 12.3 Pharmacokinetics

Atropine disappears rapidly from the blood following injection and is distributed throughout the body. Exercise, both prior to and immediately following intramuscular administration of atropine, significantly increases the absorption of atropine due to increased perfusion in the muscle and significantly decreases the clearance of atropine.

The pharmacokinetics of atropine is nonlinear after intravenous administration of 0.5 to 4 mg. Atropine's plasma protein binding is about 44% and saturable in the 2–20 µg/mL concentration range. Atropine readily crosses the placental barrier and enters the fetal circulation, but is not found in amniotic fluid. Much of the drug is destroyed by enzymatic hydrolysis, particularly in the liver; from 13 to 50% is excreted unchanged in the urine. Traces are found in various secretions, including milk. The major metabolites of atropine are noratropine, atropin-n-oxide, tropine, and tropic acid. The metabolism of atropine is inhibited by organophosphate pesticides.

### Specific Populations

The elimination half-life of atropine is more than doubled in children under two years and the elderly (>65 years old) compared to other age groups. There is no gender effect on the pharmacokinetics and pharmacodynamics (heart rate changes) of atropine.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Studies have not been performed to evaluate the carcinogenic or mutagenic potential of atropine or its potential to affect fertility adversely.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

Atropine Sulfate Injection, USP, 0.1 mg/mL, is a clear and colorless solution available in 5 mL single-dose glass vials. Each vial is co-packaged with an injector, which together make a LifeShield™ Abboject™ Glass Syringe. It is supplied in the following presentations:

NDC 51662-1208-1 ATROPINE SULFATE INJECTION, USP 0.5mg/5mL (0.1mg/mL) 5mL SYR

NDC 51662-1208-2 ATROPINE SULFATE INJECTION, USP 0.5mg/5mL (0.1mg/mL) 5mL SYR, 1 SYRINGE PER POUCH

NDC 51662-1208-3 ATROPINE SULFATE INJECTION, USP 0.5mg/5mL (0.1mg/mL) 5mL SYR, 1 SYRINGE PER POUCH, 10 POUCHES PER CASE

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F). [See USP Controlled Room Temperature.]

### SPL Unclassified

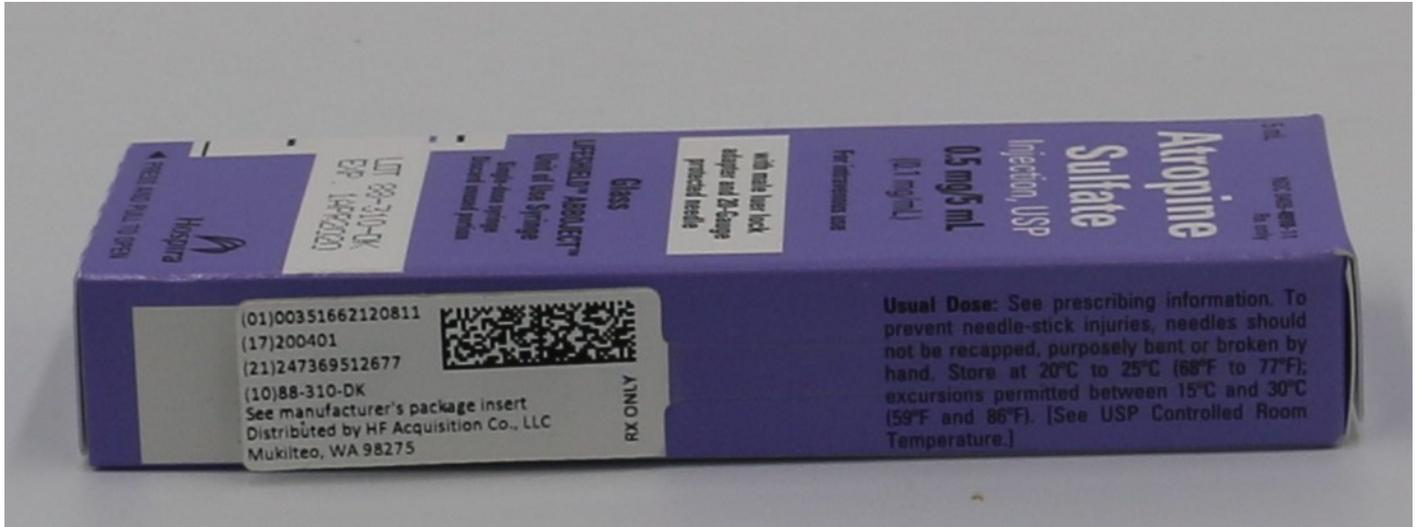
Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

Abboject™ is a trademark of the Abbott group of companies.

LifeShield™ is the trademark of ICU Medical, Inc. and is used under license.

LAB-0879-4.0

## Principle Display Serialized Label



## Principle Display Panel, 5 ML SYRINGE



## Principle Display Panel, 5 ML SYRINGE CARTON

**CAUTION: Liquid in glass. Handle with care. Inspect vial for damage prior to assembly.**

**Use Aseptic Technique  
Do not assemble until ready to use.**

1. Remove caps from vial and injector.



2. Insert vial into injector **without exerting excessive force.** Ensure that vial and injector are properly aligned. **Gently rotate vial clockwise (about 3 turns) until medication enters needle. If resistance is encountered, remove vial and repeat procedure.**



3. To access green male luer lock adapter, push yellow hood in and then twist *counterclockwise*.

OR

To access **needle**, twist and pull yellow hood *clockwise* to remove hood and green adapter.



4. Apply gentle downward pressure on vial to initiate liquid flow. **DO NOT APPLY EXCESSIVE FORCE TO VIAL.**

MADE IN GERMANY

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

CA-4400

ABBOJECT™ is a trademark of the Abbott group of companies.  
LIFESHIELD™ is the trademark of ICU Medical, Inc. and is used under license.

**Atropine Sulfate**  
Injection, USP  
**0.5 mg/5 mL (0.1 mg/mL)**

Each mL contains 0.1 mg atropine sulfate monohydrate, equivalent to 0.083 mg atropine; sodium chloride 9 mg. May contain sodium hydroxide and/or sulfuric acid for pH adjustment 0.308 mOsmol/mL (calc.), pH 3.0 to 6.5. Medication, fluid path and needle are sterile and nonpyrogenic if caps and protective cover are undisturbed and package is intact.

**Atropine Sulfate**  
Injection, USP  
**0.5 mg/5 mL (0.1 mg/mL)** Hospira  
5 mL NDC 0409-4910-11

5 mL NDC 0409-4910-11  
Rx only

**Atropine Sulfate**  
Injection, USP  
**0.5 mg/5 mL**  
(0.1 mg/mL)

For intravenous use

with male luer lock  
adapter and 20-Gauge  
protected needle

**Glass**  
**LIFESHIELD™ ABBOJECT™**  
Unit of Use Syringe  
Single-dose syringe  
Discard unused portion



OP EN

← PRESS AND PULL TO OPEN

5 mL NDC 0409-4910-11  
**Atropine Sulfate**  
Injection, USP  
**0.5 mg/5 mL (0.1 mg/mL)** Hospira

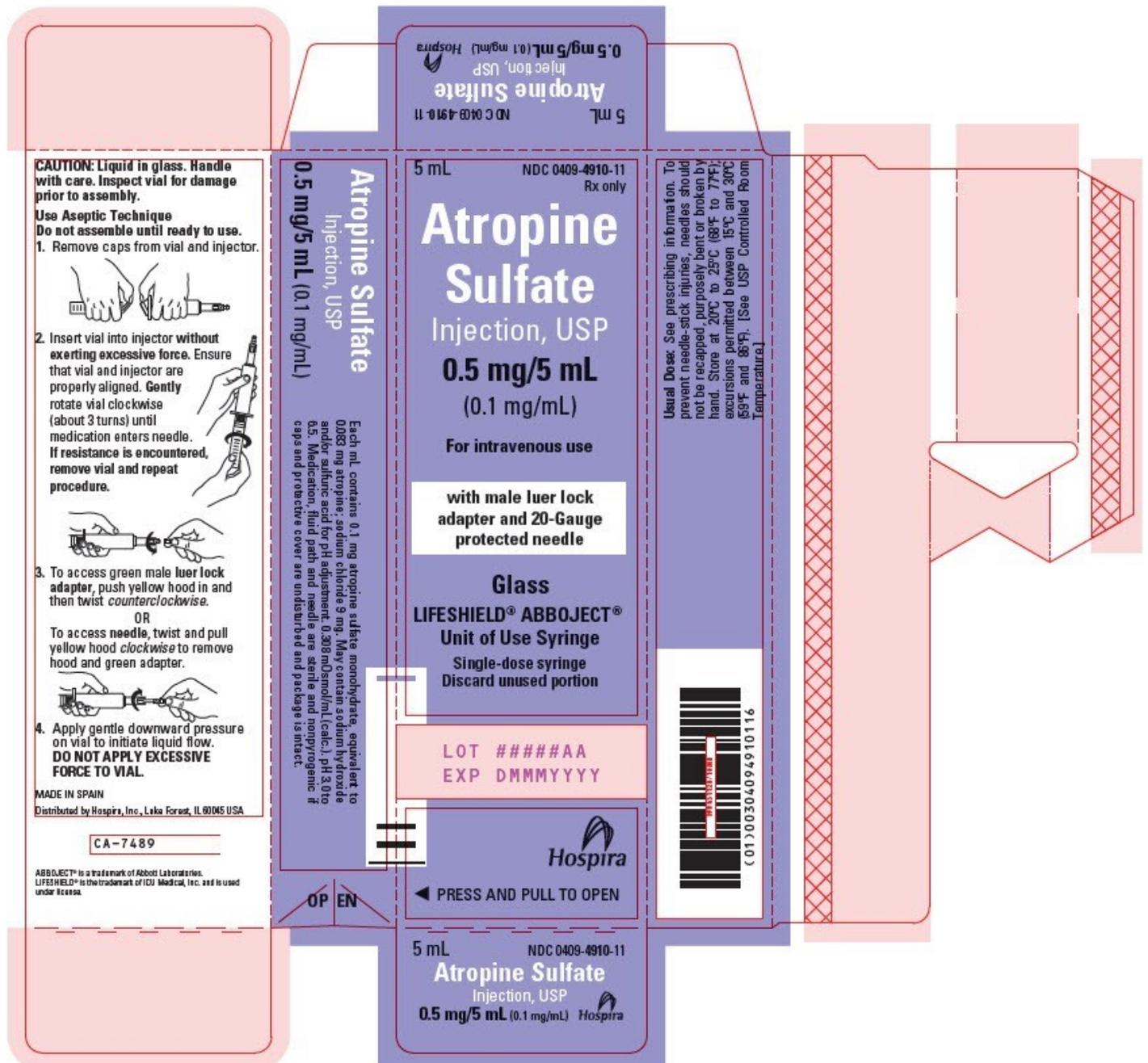
**Usual Dose:** See prescribing information. To prevent needle-stick injuries, needles should not be recapped, purposely bent or broken by hand. Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F). [See USP Controlled Room Temperature.]



(01)003040949 10116

# PRINCIPAL DISPLAY PANEL 51662-1208-2 POUCH LABELING

## SYRINGE PACKAGING



## POUCH LABELING

ATROPINE SULFATE INJECTION, USP  
0.5mg/5mL (0.1mg/mL) 5mL SYR

NDC: 51662-1208-2  
LOT: 123456  
EXP: 2030-01-01

(01) 00351662120828  
(10) 123456  
(17) 300101  
(21) 173743258400

FOR INTRAVENOUS USE. EACH mL CONTAINS 0.1mg ATROPINE SULFATE MONOHYDRATE, EQUIVALENT TO 0.083mg ATROPINE; SODIUM CHLORIDE 9mg. MAY CONTAIN SODIUM HYDROXIDE AND/OR SULFURIC ACID FOR pH ADJUSTMENT. 0.300mOsmol/mL (CALC.) pH 3.0 TO 6.5. MEDICATION, FLUID PATH AND NEEDLE ARE STERILE AND NONPYROGENIC IF CAPS AND PROTECTIVE COVER ARE UNDISTURBED AND PACKAGE IS INTACT. DISCARD UNUSED PORTION. USUAL DOSE: SEE PRESCRIBING INFORMATION. TO PREVENT NEEDLE-STICK INJURIES, NEEDLES SHOULD NOT BE RECAPPED, PURPOSELY BENT OR BROKEN BY HAND. STORE AT 20°C TO 25°C (68°F TO 77°F); EXCURSIONS PERMITTED BETWEEN 15°C AND 30°C (59°F AND 86°F). [SEE USP CONTROLLED ROOM TEMPERATURE.]

See manufacturer's package insert  
ORIGINAL MFG NDC: 0409-4910-34  
RX ONLY  
Manufactured by HF Acquisition Co., LLC  
Mukilteo, WA 98275



**PRINCIPAL DISPLAY PANEL 51662-1208-3 CASE LABELING**  
CASE LABELING

ATROPINE SULFATE INJECTION, USP  
0.5mg/5mL (0.1mg/mL) 5mL SYR (CASE OF 10)

NDC: 51662-1208-3  
LOT: 123456  
EXP: 2030-01-01

(01) 40351662120833  
(10) 123456  
(17) 300101  
(21) 135362465882

CASE

FOR INTRAVENOUS USE. EACH mL CONTAINS 0.1mg ATROPINE SULFATE MONOHYDRATE, EQUIVALENT TO 0.083mg ATROPINE; SODIUM CHLORIDE 9mg. MAY CONTAIN SODIUM HYDROXIDE AND/OR SULFURIC ACID FOR pH ADJUSTMENT. 0.300 mOsmol/mL (CALC.) pH 3.0 TO 6.5. MEDICATION, FLUID PATH AND NEEDLE ARE STERILE AND NONPYROGENIC IF CAPS AND PROTECTIVE COVER ARE UNDISTURBED AND PACKAGE IS INTACT. DISCARD UNUSED PORTION. USUAL DOSE: SEE PRESCRIBING INFORMATION. TO PREVENT NEEDLE STICK INJURIES, NEEDLES SHOULD NOT BE RECAPPED, PURPOSELY BENT OR BROKEN BY HAND. STORE AT 20°C TO 25°C (68°F TO 77°F); EXCURSIONS PERMITTED BETWEEN 15°C AND 30°C (59°F AND 86°F). (SEE USP CONTROLLED ROOM TEMPERATURE.)

See manufacturer's package insert  
ORIGINAL MFG NDC: 0409-4910-34  
RX ONLY  
Manufactured by HF Acquisition Co., LLC  
Mukilteo, WA 98275



SERIALIZED RFID

(01)40351662120833  
(17)230919  
(21)351662141212  
(10)HF1234TESTING

SEE MANUFACTURE'S INSERT  
DISTRIBUTED BY HF ACQUISITIONS CO., LLC  
MUKILTEO, WA 98275

RX ONLY



## ATROPINE SULFATE

atropine sulfate injection, solution

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:51662-1208(NDC:0409- 4910)
<b>Route of Administration</b>	INTRAVENOUS		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ATROPINE SULFATE (UNII: 03J5ZE7KA5) (ATROPINE - UNII:7C0697DR9I)	ATROPINE SULFATE	0.1 mg in 1 mL

## Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM HYDROXIDE</b> (UNII: 55X04QC32I)	
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>SULFURIC ACID</b> (UNII: O40UQP6WCF)	
<b>SODIUM CHLORIDE</b> (UNII: 451W47IQ8X)	9 mg in 1 mL

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51662-1208-1	1 in 1 CARTON	08/20/2018	
1		5 mL in 1 SYRINGE, GLASS; Type 1: Convenience Kit of Co-Package		
2	NDC:51662-1208-3	10 in 1 CASE	11/10/2022	
2	NDC:51662-1208-2	1 in 1 POUCH		
2		1 in 1 CARTON		
2		5 mL in 1 SYRINGE, GLASS; Type 1: Convenience Kit of Co-Package		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
unapproved drug other		08/20/2018	

**Labeler** - HF Acquisition Co., LLC, DBA Health First (045657305)

**Registrant** - HF Acquisition Co., LLC, DBA Health First (045657305)

## Establishment

Name	Address	ID/FEI	Business Operations
HF Acquisition Co. LLC, DBA Health First		045657305	relabel(51662-1208)

Revised: 1/2024

HF Acquisition Co., LLC, DBA Health First