

ATROPINE SULFATE- atropine sulfate injection**HF Acquisition Co LLC, DBA HealthFirst**

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](#).

ATROPINE SULFATE INJECTION, USP 8mg/20mL (0.4mg/mL) 20mL VIAL**SPL UNCLASSIFIED**

FOR IM, IV OR SC USE

RX only

DESCRIPTION

Atropine Sulfate Injection, USP is a sterile solution of atropine sulfate in Water for Injection. Each mL contains Atropine Sulfate 0.4 mg; Sodium Chloride 9 mg; Benzyl Alcohol 9 mg; Water for Injection qs; pH may be adjusted with Sulfuric Acid if necessary. pH 3.0-6.5.

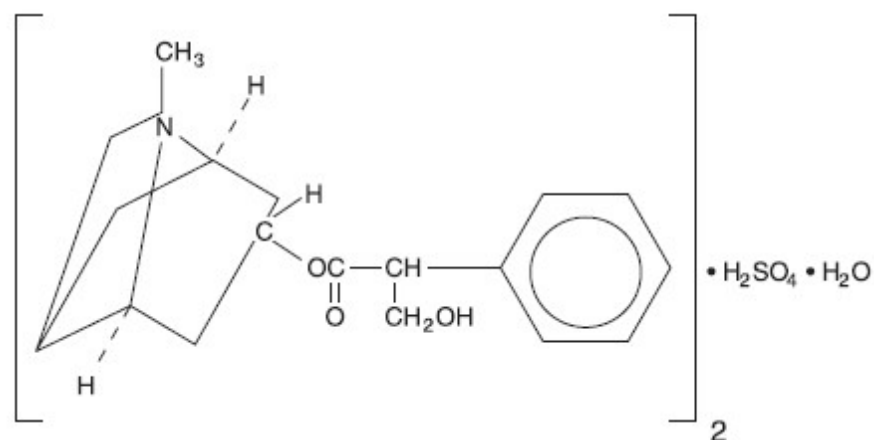
Atropine Sulfate Injection, USP may be given intramuscularly, intravenously or subcutaneously.

Atropine is a white crystalline alkaloid which may be extracted from belladonna root or may be produced synthetically. It is used as atropine sulfate because this compound has much greater solubility.

Atropine sulfate is an anticholinergic drug. The empirical formula of atropine sulfate is

$(C_{17}H_{23}NO_3)_2 \cdot H_2SO_4 \cdot H_2O$.

The structural formula is:



CLINICAL PHARMACOLOGY

The most important therapeutic action of atropine is the inhibition of smooth muscle and glands innervated by postganglionic cholinergic nerves. It also has central nervous system activity, which may be stimulating or depressing depending upon the dose.

Following the administration of usual clinical doses, atropine produces stimulation of the medulla and higher cerebral centers. This effect is manifested by mild central vagal excitation and moderate respiratory stimulation. Atropine sulfate also acts peripherally as a competitive antagonist of the muscarinic actions of acetylcholine. It does not prevent the release of acetylcholine but antagonizes the effect of acetylcholine on the effector cells.

These actions include vasodilation, drying of the mouth, an increase in the pulse rate, inhibition of contractions of the gastrointestinal tract, ureter, and bladder, and reduction of salivary, bronchial, gastric and sweat gland secretions. Following clinical and larger doses, atropine sulfate causes dilation of the pupils and paralysis of accommodation and, in narrow-angle glaucoma, can increase intraocular pressure.

INDICATIONS & USAGE

Atropine sulfate is given parenterally as a preanesthetic medication to decrease salivation and bronchial

secretions. It is useful in pylorospasm and other spastic conditions of the gastrointestinal tract. For ureteral and biliary colic, atropine sulfate given with morphine may be indicated. Atropine sulfate is indicated for relaxation of the upper gastrointestinal tract and colon during hypotonic radiography. Atropine is used as an antidote for pilocarpine, physostigmine, isoflurophate, choline esters, certain species of aminata and in poisoning by the organic phosphate cholinesterase inhibitors found in certain insecticides and by chemical warfare "nerve gases". Large doses relieve the muscarine-like symptoms and some of the central nervous system manifestations.

CONTRAINDICATIONS

Conditions at which inhibition of postganglionic cholinergic nerves are undesirable, such as glaucoma and tachycardia. Also contraindicated in asthma, because the parenteral dose which might relieve asthma would have an excessive drying effect upon mucous plugs in the bronchi. Prostatic hypertrophy, while not a contraindication, requires special attention to signs of urinary retention.

WARNINGS

Atropine is a highly potent drug and due care is essential to avoid overdosage, especially with intravenous administration. Pediatric populations are more susceptible than adults to the toxic effects of anticholinergic agents.

Atropine I.V. 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. Atropine is not removed by dialysis. This drug is effective in very low dosage and overdose may cause permanent damage or death, especially in children.

This product contains Benzyl Alcohol which has been associated with a fatal gasping syndrome in infants and neonates.

PRECAUTIONS

General

Doses of 0.5 to 1 mg atropine are mildly stimulating to the CNS. Larger doses may produce mental disturbances; still larger doses are depressing. Death from atropine poisoning, though rare, is usually due to paralysis of the medullary centers.

Information for Patients

Atropine causes dryness of the mouth, and when used with other drugs that can cause dryness of the mouth, the effect is additive. Patients receiving chronic treatment can develop blurred vision, and they should not be involved in activities that require good and clear vision.

Drug Interactions

Atropine, by slowing gastric emptying and gastrointestinal mobility, may interfere with the absorption of other medications. The effect of atropine on dryness of the mouth may be increased if it is given with other drugs that have anticholinergic action.

Pregnancy Category C

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

Nursing Mothers

Caution should be exercised when atropine sulfate is administered to a nursing mother.

ADVERSE REACTIONS

Individual tolerance varies greatly, but these systemic doses are likely to produce the following effects:

0.5 mg -	Slight dryness of nose and mouth, bradycardia.
1 mg -	Greater dryness of nose and mouth, with thirst; slowing, then acceleration of heart; slight mydriasis.
2 mg -	Very dry mouth, tachycardia, with palpitation, mydriasis, slight blurring of near vision.
5 mg -	Increase in the above symptoms plus disturbance of speech, difficulty in swallowing, headache, hot, dry skin, restlessness with asthenia.
10 mg and over -	Above symptoms to extreme degree, plus ataxia, excitement, disorientation, hallucinations, delirium and coma.
65 mg -	May be fatal.

A scarlatiniform rash may occur. Atropine may produce fever, particularly in children, through inhibition of heat loss by evaporation. Although large doses of atropine may cause an alarming condition, recovery is usual.

OVERDOSAGE

Toxic doses from atropine are not uncommon, especially in children.

Symptoms

The principle manifestations of poisoning with atropine are delirium, tachycardia and fever.

Treatment

In the treatment of atropine poisoning, respiratory assistance and symptomatic support are indicated. Physostigmine salicylate, 1 to 5 mL of a dilution containing 1 mg per 5 mL of saline, should be administered intravenously. Administer the smaller dose in children and administer in not less than 2 minutes. Monitor with ECG. Medication can be repeated every 5 minutes for a total dose of 2 mg in

children and every 30 minutes for a total dose of 6 mg in adults.

The fatal dose of atropine in children may be as low as 10 mg. In an adult, recovery after 1,000 mg of atropine sulfate has been reported. Death is usually due to paralysis of the medullary centers. The fatality rate is less than 1%. If the patient survives 24 hours, they will probably recover.

DOSAGE & ADMINISTRATION

The usual dose of atropine sulfate is 0.4 to 0.6 mg. Suggested dosages for pediatric patients are as follows:

7 - 16 lbs. – 0.1 mg 40 - 65 lbs. – 0.3 mg

17 - 24 lbs. – 0.15 mg 65 - 90 lbs. – 0.4 mg

24 - 40 lbs. – 0.2 mg Over 90 lbs. – 0.4 to 0.6 mg

Table of Dosage Equivalents

Atropine Sulfate Solution (mL required)		
mg required	1 mg per mL	0.4 mg per mL
1	1	
0.80	0.80	
0.60	0.60	
0.50	0.50	
0.40	0.40	1
0.30	0.30	0.75
0.25	0.25	0.63
0.20	0.20	0.50
0.18	0.18	0.45
0.15	0.15	0.38
0.12	0.12	0.30
0.10	0.10	0.25

These doses may be exceeded in certain cases.

For hypotonic radiography of the gastrointestinal tract, the usual adult dose is 1 mg intramuscularly. Adults suspected of contact with organic phosphorous insecticides of the parathion type should be given atropine sulfate 0.8 mg intramuscularly. If an atropine effect is not apparent within 30 minutes or if definite symptoms of the poisoning occur (nausea, vomiting, diarrhea, pupillary constriction, pulmonary edema, fasciculations of eyelids and tongue, jerky ocular movements and excessive sweating, salivation

and bronchial secretion), atropine sulfate 2 mg should be given intramuscularly at hourly intervals until signs of atropinization are observed. Up to 2 or 3 times of this dose (4 to 6 mg) may be required in severe cases.

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

HOW SUPPLIED

ATROPINE SULFATE INJECTION, USP is supplied in the following dosage forms:

NDC 51662-1311-1 ATROPINE SULFATE INJECTION, USP 8mg/20mL (0.4mg/mL) 20mL VIAL

NDC 51662-1311-2 - 1 Pouch of ATROPINE SULFATE INJECTION, USP 8mg/20mL (0.4mg/mL) 20mL VIAL

NDC 51662-1311-3 - Case of 25 pouches of ATROPINE SULFATE INJECTION, USP 8mg/20mL (0.4mg/mL) 20mL VIAL

HF Acquisition Co LLC, DBA HealthFirst
Mukilteo, WA 98275

Also supplied in the following manufacture supplied dosage forms

Atropine Sulfate Injection, USP is available in the following:

0.4 mg/mL

20 mL multiple dose vial packaged in 10s (NDC 0641-6006-10)

Use only if solution is clear and seal intact.

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

To report SUSPECTED ADVERSE REACTIONS, contact West-Ward Pharmaceutical Corp. at 1-877-845-0689, or the FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

For Product Inquiry call 1-877-845-0689.

Manufactured by:



WEST-WARD
PHARMACEUTICALS
Eatontown, NJ 07724 USA
Revised June 2011
462-416-01

PRINCIPAL DISPLAY PANEL, VIAL NDC 0641-6006-01

Atropine Sulfate Injection, USP
8 mg/20 mL (0.4 mg/mL)
20 mL Multiple Dose Vial
NDC 0641-6006-01

NDC 0641-6006-01

Atropine
Sulfate Injection, USP

8 mg/20 mL (0.4 mg/mL)
FOR IM, IV OR SC USE
20 mL Multiple Dose Vial

Rx only

Each mL contains: Atropine Sulfate 0.4 mg;
Benzyl Alcohol 9 mg; Sodium Chloride
9 mg; Water for Injection qs; pH is adjusted
with Sulfuric Acid if necessary, pH 3.0-6.5.

Usual Dosage: See package insert.
**Store at 20°-25°C (68°-77°F) (See USP
Controlled Room Temperature).**

Mfd by:  WEST-WARD
Eatontown, NJ 07724 USA
462-421-01

(01)00339416006019

Lot:
Exp:

PRINCIPAL DISPLAY PANEL, NDC 51662-1311-1 SERIALIZED VIAL



PRINCIPAL DISPLAY LABEL - NDC 51662-1311-2 SERIALIZED POUCH LABEL

**ATROPINE SULFATE INJECTION, USP 8mg/20mL
(0.4mg/mL) 20mL VIAL**

NDC: 51662-1311-2

LOT: 12345

EXP: 2030-06-30

(01) 00351662131121

(10) 12345

(17) 300630

(21) 7727212571

FOR INTRAMUSCULAR, INTRAVENOUS, OR SUBCUTANEOUS USE. USUAL
DOSAGE: SEE PACKAGE INSERT. STORE AT 20-25°C (68-77°F) [SEE USP
CONTROLLED ROOM TEMPERATURE].

See manufacturer's package insert

ORIGINAL MFG NDC: 0641-6006-10

RX ONLY

Manufactured by HF Acquisition Co., LLC
Mukilteo, WA 98275



PRINCIPAL DISPLAY LABEL - NDC 51662-1311-3 SERIALIZED CASE LABEL

ATROPINE SULFATE INJECTION, USP 8mg/20mL
(0.4mg/mL) 20mL VIAL (BOX OF 25)

NDC: 51662-1311-3

LOT: 12345

EXP: 2030-06-30

(01) 00351662131138

(10) 12345

(17) 300630

(21) 70264922311

CASE

FOR INTRAMUSCULAR, INTRAVENOUS, OR SUBCUTANEOUS USE. USUAL
DOSAGE: SEE PACKAGE INSERT. STORE AT 20-25°C (68-77°F) [SEE USP
CONTROLLED ROOM TEMPERATURE].

See manufacturer's package insert

ORIGINAL MFG NDC: 0641-6006-10

RX ONLY

Manufactured by HF Acquisition Co., LLC
Mukilteo, WA 98275



PRINCIPAL DISPLAY LABEL - NDC 51662-1311-3 SERIALIZED RFID LABEL

(01) 00351662131138

(17) 300630

(21) 70264922311

(10) 12345

See manufacturer's package insert

Distributed by HF Acquisition Co., LLC

Mukilteo, WA 98275



RX ONLY

ATROPINE SULFATE

atropine sulfate injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:51662-1311(NDC:0641-6006)
Route of Administration	INTRAMUSCULAR, INTRAVENOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ATROPINE SULFATE (UNII: 03J5ZE7KA5) (ATROPINE - UNII:7C0697DR9I)	ATROPINE SULFATE	0.4 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	9 mg in 1 mL
BENZYL ALCOHOL (UNII: LKG8494WBH)	9 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SULFURIC ACID (UNII: O40UQP6WCF)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51662-1311-	20 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination	10/06/2018	

1	Product	10/06/2018	
2	NDC:51662-1311-3 25 in 1 CASE	09/04/2020	
2	NDC:51662-1311-2 1 mL in 1 POUCH; Type 0: Not a Combination Product		
Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
unapproved drug other		10/06/2018	

Labeler - HF Acquisition Co LLC, DBA HealthFirst (045657305)

Registrant - HF Acquisition Co LLC, DBA HealthFirst (045657305)

Establishment			
Name	Address	ID/FEI	Business Operations
HF Acquisition Co LLC, DBA HealthFirst		045657305	relabel(51662-1311)