

NOREPINEPHRINE BITARTRATE - norepinephrine bitartrate injection

Baxter Healthcare Corporation

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

NOREPINEPHRINE BITARTRATE injection, for intravenous use

Initial U.S. Approval: 1950

----- **INDICATIONS AND USAGE** -----

Norepinephrine bitartrate injection is a catecholamine indicated for restoration of blood pressure in adult patients with acute hypotensive states. (1)

----- **DOSAGE AND ADMINISTRATION** -----

- Initial dose of 0.25 mL to 0.375 mL (from 8 mcg to 12 mcg of base) per minute, adjust the rate of flow to establish and maintain a low to normal blood pressure (usually 80 mm Hg to 100 mm Hg systolic) sufficient to maintain the circulation of vital organs. (2.2)
- The average maintenance dose ranges from 0.0625 mL to 0.125 mL per minute (from 2 mcg to 4 mcg of base). (2.2)

----- **DOSAGE FORMS AND STRENGTHS** -----

Injection: 4 mg/4 mL (1 mg/mL) norepinephrine base in single-dose ampule. (3)

----- **CONTRAINDICATIONS** -----

None. (4)

----- **WARNINGS AND PRECAUTIONS** -----

- Tissue Ischemia: Avoid extravasation of norepinephrine bitartrate injection into the tissues, as local necrosis might ensue due to the vasoconstrictive action of the drug. Infuse norepinephrine bitartrate injection into a large vein. To prevent sloughing and necrosis in areas in which extravasation has taken place, the area should be infiltrated as soon as possible with 10 mL to 15 mL of saline solution containing from 5 mg to 10 mg of an adrenergic blocking agent. (5.1)
- Hypotension After Abrupt Discontinuation: Sudden cessation of the infusion rate may result in marked hypotension. Reduce the norepinephrine bitartrate injection infusion rate gradually. (5.2)
- Cardiac Arrhythmias: Norepinephrine bitartrate injection may cause arrhythmias. Monitor cardiac function in patients with underlying heart disease. (5.3)

----- **ADVERSE REACTIONS** -----

Most common adverse reactions are ischemic injury, bradycardia, anxiety, transient headache, respiratory difficulty, and extravasation necrosis at injection site. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Baxter Healthcare Corporation at 1-877-725-2747, or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

----- **DRUG INTERACTIONS** -----

- Monoamine oxidase inhibitors (MAOI) or antidepressants of the triptyline or imipramine types may result in hypertension. (7.1)
- Cyclopropane and halothane anesthetics increase cardiac autonomic irritability. (7.4)

----- **USE IN SPECIFIC POPULATIONS** -----

- Elderly patients may be at greater risk of developing adverse reactions. (8.5)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 5/2025

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Norepinephrine bitartrate injection is indicated to raise blood pressure in adult patients with severe, acute hypotension.

2 DOSAGE AND ADMINISTRATION

2.1 Important Dosage and Administration Instructions

Correct Hypovolemia

Address hypovolemia before initiation of norepinephrine bitartrate injection therapy. If the patient does not respond to therapy, suspect occult hypovolemia [see *Warnings and Precautions (5.1)*].

Administration

Dilute norepinephrine bitartrate injection prior to use [see *Dosage and Administration (2.3)*].

Infuse norepinephrine bitartrate injection into a large vein. Avoid infusions into the veins of the leg in the elderly or in patients with occlusive vascular disease of the legs [see *Warnings and Precautions (5.1)*]. Avoid using a catheter-tie-in technique.

Discontinuation

When discontinuing the infusion, reduce the flow rate gradually. Avoid abrupt withdrawal.

2.2 Dosage

After an initial dosage of 8 to 12 mcg per minute via intravenous infusion, assess patient response and adjust dosage to maintain desired hemodynamic effect. Monitor blood pressure every two minutes until the desired hemodynamic effect is achieved, and then monitor blood pressure every five minutes for the duration of the infusion.

Typical maintenance intravenous dosage is 2 to 4 mcg per minute.

2.3 Preparation of Diluted Solution

Visually inspect norepinephrine bitartrate injection for particulate matter and discoloration prior to administration (the solution is colorless). Do not use the solution if its color is pinkish or darker than slightly yellow or if it contains a precipitate.

Add the content of one norepinephrine bitartrate injection ampule (4 mg in 4 mL) to 1,000 mL of 5% Dextrose Injection, USP or Sodium Chloride Injection solutions that contain 5% dextrose to produce a 4 mcg per mL dilution. Dextrose reduces loss of potency due to oxidation. Administration in saline solution alone is not recommended.

Use higher concentration solutions in patients requiring fluid restriction. Prior to use, store the diluted norepinephrine bitartrate injection solution for up to 24 hours at room temperature [20°C to 25°C (68°F to 77°F)] and protect from light.

2.4 Drug Incompatibilities

Avoid contact with iron salts, alkalis, or oxidizing agents.

Whole blood or plasma, if indicated to increase blood volume, should be administered separately.

3 DOSAGE FORMS AND STRENGTHS

Injection: 4 mg/4 mL (1 mg/mL norepinephrine base) sterile, colorless solution in a

single-dose clear glass ampule.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Tissue Ischemia

Administration of norepinephrine bitartrate injection to patients who are hypotensive from hypovolemia can result in severe peripheral and visceral vasoconstriction, decreased renal perfusion and reduced urine output, tissue hypoxia, lactic acidosis, and reduced systemic blood flow despite “normal” blood pressure. Address hypovolemia prior to initiating norepinephrine bitartrate injection [see *Dosage and Administration (2.1)*]. Avoid norepinephrine bitartrate injection in patients with mesenteric or peripheral vascular thrombosis, as this may increase ischemia and extend the area of infarction.

Gangrene of the extremities has occurred in patients with occlusive or thrombotic vascular disease or who received prolonged or high dose infusions. Monitor for changes to the skin of the extremities in susceptible patients.

Extravasation of norepinephrine bitartrate injection may cause necrosis and sloughing of surrounding tissue. To reduce the risk of extravasation, infuse into a large vein, check the infusion site frequently for free flow, and monitor for signs of extravasation [see *Dosage and Administration (2.1)*].

Emergency Treatment of Extravasation

To prevent sloughing and necrosis in areas in which extravasation has occurred, infiltrate the ischemic area as soon as possible, using a syringe with a fine hypodermic needle with 5 to 10 mg of phentolamine mesylate in 10 to 15 mL of 0.9% Sodium Chloride Injection in adults.

Sympathetic blockade with phentolamine causes immediate and conspicuous local hyperemic changes if the area is infiltrated within 12 hours.

5.2 Hypotension after Abrupt Discontinuation

Sudden cessation of the infusion rate may result in marked hypotension. When discontinuing the infusion, gradually reduce the norepinephrine bitartrate injection infusion rate while expanding blood volume with intravenous fluids.

5.3 Cardiac Arrhythmias

Norepinephrine bitartrate injection elevates intracellular calcium concentrations and may cause arrhythmias, particularly in the setting of hypoxia or hypercarbia. Perform continuous cardiac monitoring of patients with arrhythmias.

6 ADVERSE REACTIONS

The following adverse reactions are described in greater detail in other sections:

- Tissue Ischemia [see Warnings and Precautions (5.1)]
- Hypotension [see Warnings and Precautions (5.2)]
- Cardiac Arrhythmias [see Warnings and Precautions (5.3)]

The most common adverse reactions are hypertension and bradycardia.

The following adverse reactions can occur:

Nervous system disorders: Anxiety, headache

Respiratory disorders: Respiratory difficulty, pulmonary edema

7 DRUG INTERACTIONS

7.1 MAO-Inhibiting Drugs

Co-administration of norepinephrine bitartrate injection with monoamine oxidase (MAO) inhibitors or other drugs with MAO-inhibiting properties (e.g., linezolid) can cause severe, prolonged hypertension.

If administration of norepinephrine bitartrate injection cannot be avoided in patients who recently have received any of these drugs and in whom, after discontinuation, MAO activity has not yet sufficiently recovered, monitor for hypertension.

7.2 Tricyclic Antidepressants

Co-administration of norepinephrine bitartrate injection with tricyclic antidepressants (including amitriptyline, nortriptyline, protriptyline, clomipramine, desipramine, imipramine) can cause severe, prolonged hypertension. If administration of norepinephrine bitartrate injection cannot be avoided in these patients, monitor for hypertension.

7.3 Antidiabetics

Norepinephrine bitartrate injection can decrease insulin sensitivity and raise blood glucose. Monitor glucose and consider dosage adjustment of antidiabetic drugs.

7.4 Halogenated Anesthetics

Concomitant use of norepinephrine bitartrate injection with halogenated anesthetics (e.g., cyclopropane, desflurane, enflurane, isoflurane, and sevoflurane) may lead to ventricular tachycardia or ventricular fibrillation. Monitor cardiac rhythm in patients receiving concomitant halogenated anesthetics.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Limited published data consisting of a small number of case reports and multiple small trials involving the use of norepinephrine in pregnant women at the time of delivery have not identified an increased risk of major birth defects, miscarriage or adverse maternal

or fetal outcomes. There are risks to the mother and fetus from hypotension associated with septic shock, myocardial infarction and stroke which are medical emergencies in pregnancy and can be fatal if left untreated. (see *Clinical Considerations*). In animal reproduction studies, using high doses of intravenous norepinephrine resulted in lowered maternal placental blood flow. Clinical relevance to changes in the human fetus is unknown since the average maintenance dose is ten times lower (see *Data*). Increased fetal reabsorptions were observed in pregnant hamsters after receiving daily injections at approximately 2 times the maximum recommended dose on a mg/m³ basis for four days during organogenesis (see *Data*).

The estimated background risk for major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in the clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

Hypotension associated with septic shock, myocardial infarction, and stroke are medical emergencies in pregnancy which can be fatal if left untreated. Delaying treatment in pregnant women with hypotension associated with septic shock, myocardial infarction and stroke may increase the risk of maternal and fetal morbidity and mortality. Life-sustaining therapy for the pregnant woman should not be withheld due to potential concerns regarding the effects of norepinephrine on the fetus.

Data

Animal Data

A study in pregnant sheep receiving high doses of intravenous norepinephrine (40 mcg/min, at approximately 10 times the average maintenance dose of 2 mcg/min to 4 mcg/min in human, on a mg/kg basis) exhibited a significant decrease in maternal placental blood flow. Decreases in fetal oxygenation, urine and lung liquid flow were also observed.

Norepinephrine administration to pregnant rats on Gestation Day 16 or 17 resulted in cataract production in rat fetuses.

In hamsters, an increased number of resorptions (29.1% in study group vs. 3.4% in control group), fetal microscopic liver abnormalities and delayed skeletal ossification were observed at approximately 2 times the maximum recommended intramuscular or subcutaneous dose (on a mg/m² basis at a maternal subcutaneous dose of 0.5 mg/kg/day from Gestation Day 7 to 10).

8.2 Lactation

Risk Summary

There are no data on the presence of norepinephrine in either human or animal milk, the effects on the breastfed infant, or the effects on milk production. Clinically relevant exposure to the infant is not expected based on the short half-life and poor oral bioavailability of norepinephrine.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

8.5 Geriatric Use

Clinical studies of norepinephrine bitartrate injection did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the 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.

Avoid administration of norepinephrine bitartrate injection into the veins in the leg in elderly patients [see *Warnings and Precautions (5.1)*].

10 OVERDOSAGE

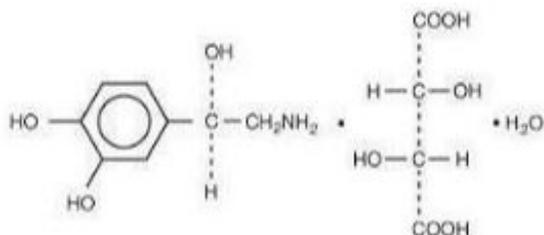
Overdosage with norepinephrine bitartrate injection may result in headache, severe hypertension, reflex bradycardia, marked increase in peripheral resistance, and decreased cardiac output.

In case of overdosage, discontinue norepinephrine bitartrate injection until the condition of the patient stabilizes.

11 DESCRIPTION

Norepinephrine (sometimes referred to as l-arterenol/Levarterenol or l-norepinephrine) is a sympathomimetic amine which differs from epinephrine by the absence of a methyl group on the nitrogen atom.

Norepinephrine bitartrate, USP is (-)- α -(aminomethyl)-3,4-dihydroxybenzyl alcohol tartrate (1:1) (salt) monohydrate (molecular weight 337.3 g/mol) and has the following structural formula:



Norepinephrine bitartrate injection, USP is supplied in a sterile aqueous solution in the form of the bitartrate salt to be administered by intravenous infusion following dilution. Norepinephrine is sparingly soluble in water, very slightly soluble in alcohol and ether,

and readily soluble in acids. Each mL contains 1 mg of norepinephrine base (equivalent to 2 mg of norepinephrine bitartrate), sodium chloride for isotonicity. It has a pH of 3 to 4.5. The air in the ampules has been displaced by nitrogen gas.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Norepinephrine is a peripheral vasoconstrictor (alpha-adrenergic action) and an inotropic stimulator of the heart and dilator of coronary arteries (beta-adrenergic action).

12.2 Pharmacodynamics

The primary pharmacodynamic effects of norepinephrine are cardiac stimulation and vasoconstriction. Cardiac output is generally unaffected, although it can be decreased, and total peripheral resistance is also elevated. The elevation in resistance and pressure result in reflex vagal activity, which slows the heart rate and increases stroke volume. The elevation in vascular tone or resistance reduces blood flow to the major abdominal organs as well as to skeletal muscle. Coronary blood flow is substantially increased secondary to the indirect effects of alpha stimulation. After intravenous administration, a pressor response occurs rapidly and reaches steady state within 5 minutes. The pharmacologic actions of norepinephrine are terminated primarily by uptake and metabolism in sympathetic nerve endings. The pressor action stops within 1 minutes to 2 minutes after the infusion is discontinued.

12.3 Pharmacokinetics

Absorption

Following initiation of intravenous infusion, the steady state plasma concentration is achieved in 5 min.

Distribution

Plasma protein binding of norepinephrine is approximately 25%. It is mainly bound to plasma albumin and to a smaller extent to prealbumin and alpha 1-acid glycoprotein. The volume of distribution is 8.8 L. Norepinephrine localizes mainly in sympathetic nervous tissue. It crosses the placenta but not the blood-brain barrier.

Elimination

The mean half-life of norepinephrine is approximately 2.4 min. The average metabolic clearance is 3.1 L/min.

Metabolism

Norepinephrine is metabolized in the liver and other tissues by a combination of reactions involving the enzymes catechol-O-methyltransferase (COMT) and MAO. The major metabolites are normetanephrine and 3-methoxy-4-hydroxy mandelic acid (vanillylmandelic acid, VMA), both of which are inactive. Other inactive metabolites include 3-methoxy-4-hydroxyphenylglycol, 3,4-dihydroxymandelic acid, and 3,4-dihydroxyphenylglycol.

Excretion

Noradrenaline metabolites are excreted in urine primarily as sulphate conjugates and, to a lesser extent, as glucuronide conjugates. Only small quantities of norepinephrine are excreted unchanged.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis, mutagenesis, and fertility studies have not been performed.

16 HOW SUPPLIED/STORAGE AND HANDLING

Norepinephrine Bitartrate Injection, USP, contains the equivalent of 4 mg base of norepinephrine per each 4 mL ampule (1 mg/mL), and is available as follows:

AIN00610 NDC 36000-162-10 Ampules of 4 mL in shelf carton of 10

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

Store in original carton until time of administration to protect from light. Discard unused portion.

17 PATIENT COUNSELING INFORMATION

Risk of Tissue Damage

Advise the patient, family, or caregiver to report signs of extravasation urgently [see *Warnings and Precautions (5.1)*].

Manufactured for:

Baxter Healthcare Corporation

Deerfield, IL 60015 USA

Manufactured by:

Sintetica S.A., Switzerland

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PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 4mg/mL

AIN00610

NDC: 36000-162-01

Norepinephrine Bitartrate Injection, USP

4 mg/4 mL (1 mg per mL)

RX only

CONTAINS NO SULFITES – PRESERVATIVE FREE

Each mL contains: norepinephrine bitartrate equal to 1mg norepinephrine base.

FOR IV INFUSION ONLY - DILUTE BEFORE USE.

PROTECT FROM LIGHT.

Directions: See Insert.

LOT:

Baxter

EXP.:

Deerfield, IL 60015 USA



68797 02

2018-10-31

AIN00610 NDC: 36000-162-01

Norepinephrine Bitartrate Injection, USP

4 mg/4 mL (1 mg per mL) Rx Only

CONTAINS NO SULFITES - PRESERVATIVE FREE

Each mL contains: norepinephrine bitartrate equal to 1mg norepinephrine base.

FOR IV INFUSION ONLY - DILUTE BEFORE USE.

PROTECT FROM LIGHT.

Directions: See Insert.

BAXTER

Deerfield, IL 60015 USA

68797 02

2018-10-31

66797 02
2018-10-31

Manufactured by:
Sintetica S.A.
Switzerland

Manufactured for:
Baxter Healthcare Corporation
Deerfield, IL 60015 USA

STERILE INJECTION

AIN00610

NDC : 36000-162-10

10 Ampules 4 mL Each

Norepinephrine Bitartrate Injection, USP

Rx only

4 mg/4 mL (1 mg per mL)

CONTAINS NO SULFITES – PRESERVATIVE FREE

Warning: This is a potent drug. Dosage should be controlled by frequent determination of blood pressure. Do not leave patient unattended during administration. Avoid extravasation. Read package insert carefully.

FOR INTRAVENOUS INFUSION ONLY. DILUTE BEFORE USE. DISCARD UNUSED PORTION.

Usual Dosage and Dilution Information - See package insert.

Do not use the solution if its color is pinkish or darker than slightly yellow or if it contains a precipitate.

Avoid contact with iron salts, alkalis, or oxidizing agents.

Each mL contains: norepinephrine bitartrate, equivalent to 1 mg norepinephrine base, sodium chloride for isotonicity.

The air in the ampules has been displaced by nitrogen gas.

These ampules are Easy Break Ampules.

Store at 25°C (77°F); excursions permitted to 15 to 30°C (59 to 86°F)

[see USP Controlled Room Temperature].

Retain in carton until time of use. PROTECT FROM LIGHT.

Baxter

GTIN (01)
LOT (10)
EXPIRY (17)
SERIAL (21)

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Norepinephrine Bitartrate Injection, USP

10 Ampules 4 mL Each

CONTAINS NO SULFITES – PRESERVATIVE FREE



STERILE INJECTION AIN00610 NDC : 36000-162-10 10 Ampules 4 mL Each

Norepinephrine Bitartrate Injection, USP Rx only

4 mg/4 mL (1 mg per mL)

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Store at 25°C (77°F); excursions permitted to 15 to 30°C (59 to 86°F)

[see USP Controlled Room Temperature].

Retain in carton until time of use. PROTECT FROM LIGHT.

Manufactured by:

Sintetica S.A.

Switzerland

Manufactured for:

Baxter Healthcare Corporation

Deerfield, IL 60015 USA

66797 02

2018-10-31



STERILE INJECTION AIN00610 NDC : 36000-162-10 10 Ampules 4 mL Each
Norepinephrine Bitartrate Injection, USP Rx only

4 mg/4 mL (1 mg per mL)

CONTAINS NO SULFITES - PRESERVATIVE FREE

Warning: This is a potent drug. Dosage should be controlled by frequent determination of blood pressure. Do not leave patient unattended during administration. Avoid extravasation. Read package insert carefully.

FOR INTRAVENOUS INFUSION ONLY. DILUTE BEFORE USE. DISCARD UNUSED PORTION.

Usual Dosage and Dilution Information - See package insert.

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[see USP Controlled Room Temperature].

Retain in carton until time of use. PROTECT FROM LIGHT.

Manufactured by:

Sintetica S.A.

Switzerland

Manufactured for:

Baxter Healthcare Corporation

Deerfield, IL 60015 USA

420100139-01

2023-04-14

NOREPINEPHRINE BITARTRATE

norepinephrine bitartrate injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:36000-162
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
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NOREPINEPHRINE BITARTRATE (UNII: IFY5PE3ZRW) (NOREPINEPHRINE - UNII:X4W3ENH1CV)	NOREPINEPHRINE	1 mg in 1 mL
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Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
NITROGEN (UNII: N762921K75)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:36000-162-10	10 in 1 CARTON	04/01/2012	
1	NDC:36000-162-01	04 mL in 1 AMPULE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA040859	04/01/2012	

Labeler - Baxter Healthcare Corporation (005083209)

Registrant - Baxter Healthcare Corporation (005083209)

Establishment

Name	Address	ID/FEI	Business Operations
SINETICA S.A.		480895478	ANALYSIS(36000-162) , LABEL(36000-162) , MANUFACTURE(36000-162) , PACK(36000-162)

Establishment

Name	Address	ID/FEI	Business Operations
SINETICA SA		480601586	ANALYSIS(36000-162) , MANUFACTURE(36000-162)

Revised: 5/2025

Baxter Healthcare Corporation