

# **PHENYLEPHRINE HYDROCHLORIDE- phenylephrine hydrochloride injection**

## **Baxter Healthcare Corporation**

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### **HIGHLIGHTS OF PRESCRIBING INFORMATION**

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

**PHENYLEPHRINE HYDROCHLORIDE injection for intravenous use**

**Initial U.S. Approval: 1954**

### **INDICATIONS AND USAGE**

Phenylephrine hydrochloride injection is an alpha-1 adrenergic receptor agonist indicated for the treatment of clinically important hypotension resulting primarily from vasodilation in the setting of anesthesia. (1)

### **DOSAGE AND ADMINISTRATION**

Phenylephrine hydrochloride injection is injected intravenously either as a bolus or in a dilute solution as a continuous infusion. Dilute before administration. (2)

Dosing for treatment of hypotension during anesthesia

- Bolus intravenous injection: 40 mcg to 100 mcg every 1 to 2 minutes as needed, not to exceed 200 mcg. (2)
- Intravenous infusion: 10 mcg/min to 35 mcg/min, titrating to effect, not to exceed 200 mcg/min. (2)
- Adjust the dose according to the pressor response (i.e., titrate to effect). (2)

### **DOSAGE FORMS AND STRENGTHS**

Injection (3)

- 1 mL single-dose vials containing 10 mg phenylephrine hydrochloride (10 mg/mL) (3)
- 5 mL pharmacy bulk package vials containing 50 mg phenylephrine hydrochloride (10 mg/mL) (3)
- 10 mL pharmacy bulk package vials containing 100 mg phenylephrine hydrochloride (10 mg/mL) (3)

### **CONTRAINDICATIONS**

None (4)

### **WARNINGS AND PRECAUTIONS**

**Exacerbation of Angina, Heart Failure, or Pulmonary Arterial Hypertension:** Phenylephrine hydrochloride injection can precipitate angina in patients with severe arteriosclerosis or history of angina, exacerbate underlying heart failure, and increase pulmonary arterial pressure. (5.1)

**Peripheral and Visceral Ischemia:** Phenylephrine hydrochloride injection can cause excessive peripheral and visceral vasoconstriction and ischemia to vital organs. (5.2)

**Skin and Subcutaneous Necrosis:** Extravasation during intravenous administration may cause necrosis or sloughing of tissue. (5.3)

**Bradycardia:** Phenylephrine hydrochloride injection can cause severe bradycardia and decreased cardiac output. (5.4)

### **ADVERSE REACTIONS**

Most common adverse reactions during treatment: nausea, vomiting, and headache. (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](http://www.fda.gov/medwatch).**

### **DRUG INTERACTIONS**

Agonistic effects (increase in phenylephrine hydrochloride injection blood pressure effect) can occur with monoamine oxidase inhibitors (MAOI), oxytocin and oxytocic drugs, tricyclic antidepressants, angiotensin and aldosterone, atropine, steroids, norepinephrine transporter inhibitors, ergot alkaloids. (7.1)

Antagonistic effects (decrease in phenylephrine hydrochloride injection blood pressure effect) can occur with  $\alpha$ -adrenergic antagonists, phosphodiesterase Type 5 inhibitors, mixed  $\alpha$ - and  $\beta$ -receptor antagonists, calcium channel blockers, benzodiazepines and ACE inhibitors, centrally acting sympatholytic agents. (7.2)

**See 17 for PATIENT COUNSELING INFORMATION.**

**Revised: 1/2026**

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## 1 INDICATIONS AND USAGE

Phenylephrine hydrochloride injection is indicated for the treatment of clinically important hypotension resulting primarily from vasodilation in the setting of anesthesia.

## 2 DOSAGE AND ADMINISTRATION

### 2.1 General Dosage and Administration Instructions

Phenylephrine hydrochloride injection must be diluted before administration as an intravenous bolus or continuous intravenous infusion to achieve the desired concentration:

- Bolus: Dilute with normal saline or 5% dextrose in water.
- Continuous infusion: Dilute with normal saline or 5% dextrose in water.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration. Do not use if the solution is colored or cloudy, or if it contains particulate matter. The diluted solution should not be held for more than 4 hours at room temperature or for more than 24 hours under refrigerated conditions. Discard any unused portion.

During phenylephrine hydrochloride injection administration:

- Correct intravascular volume depletion.
- Correct acidosis. Acidosis may reduce the effectiveness of phenylephrine.

### 2.2 Dosing for Treatment of Hypotension during Anesthesia

The following are the recommended dosages for the treatment of hypotension during anesthesia.

- The recommended initial dose is 40 to 100 mcg administered by intravenous bolus. Additional boluses may be administered every 1 to 2 minutes as needed; not to exceed a total dosage of 200 mcg.
- If blood pressure is below the target goal, start a continuous intravenous infusion with an infusion rate of 10 to 35 mcg/minute; not to exceed 200 mcg/minute.
- Adjust dosage according to the blood pressure goal.

### 2.3 Prepare a 100 mcg/mL Solution for Bolus Intravenous Administration

For bolus intravenous administration, prepare a solution containing a final concentration of 100 mcg/mL of phenylephrine hydrochloride injection:

- Withdraw 10 mg (1 mL of 10 mg/mL) of phenylephrine hydrochloride injection and dilute with 99 mL of 5% Dextrose Injection, USP or 0.9% Sodium Chloride Injection, USP.
- Withdraw an appropriate dose from the 100 mcg/mL solution prior to bolus intravenous administration.

### 2.4 Prepare a Solution for Continuous Intravenous Administration

For continuous intravenous infusion, prepare a solution containing a final concentration

of 20 mcg/mL of phenylephrine hydrochloride injection in 5% Dextrose Injection, USP or 0.9% Sodium Chloride Injection, USP:

- Withdraw 10 mg (1 mL of 10 mg/mL) of phenylephrine hydrochloride injection and dilute with 500 mL of 5% Dextrose Injection, USP or 0.9% Sodium Chloride Injection, USP.

## **2.5 Directions for Dispensing from Pharmacy Bulk Vial**

The Pharmacy Bulk Vial is intended for dispensing of single-doses to multiple patients in a pharmacy admixture program and is restricted to the preparation of admixtures for infusion. Each closure shall be penetrated only one time with a suitable sterile transfer device or dispensing set that allows measured dispensing of the contents. The Pharmacy Bulk Vial is to be used only in a suitable work area such as a laminar flow hood (or an equivalent clean air compounding area). Dispensing from a pharmacy bulk vial should be completed within 4 hours after the vial is penetrated.

## **3 DOSAGE FORMS AND STRENGTHS**

Phenylephrine hydrochloride injection USP, 10 mg/mL, for intravenous use, is available in three vial sizes:

- Injection: 10 mg/mL as a clear, colorless solution in a single-dose 1 mL vial (10 mg of phenylephrine hydrochloride, USP per vial)
- Injection: 10 mg/mL as a clear, colorless solution in Pharmacy Bulk Package 5 mL vial (50 mg of phenylephrine hydrochloride, USP per vial) that will provide five 1 mL single-doses
- Injection: 10 mg/mL as a clear, colorless solution in Pharmacy Bulk Package 10 mL vial (100 mg of phenylephrine hydrochloride, USP per vial) that will provide ten 1 mL single-doses

## **4 CONTRAINDICATIONS**

None

## **5 WARNINGS AND PRECAUTIONS**

### **5.1 Exacerbation of Angina, Heart Failure, or Pulmonary Arterial Hypertension**

Because of its increasing blood pressure effects, phenylephrine hydrochloride injection can precipitate angina in patients with severe arteriosclerosis or history of angina, exacerbate underlying heart failure, and increase pulmonary arterial pressure.

### **5.2 Peripheral and Visceral Ischemia**

Phenylephrine hydrochloride injection can cause excessive peripheral and visceral vasoconstriction and ischemia to vital organs, particularly in patients with extensive peripheral vascular disease.

### **5.3 Skin and Subcutaneous Necrosis**

Extravasation of phenylephrine hydrochloride injection can cause necrosis or sloughing of tissue. The infusion site should be checked for free flow. Care should be taken to avoid extravasation of phenylephrine hydrochloride injection.

#### **5.4 Bradycardia**

Phenylephrine hydrochloride injection can cause severe bradycardia and decreased cardiac output.

#### **5.5 Allergic Reactions**

Phenylephrine hydrochloride injection contains sodium metabisulfite, a sulfite that may cause allergic-type reactions, including anaphylactic symptoms and life-threatening or less severe asthmatic episodes in certain susceptible people. The overall prevalence of sulfite sensitivity in the general population is unknown and probably low. Sulfite sensitivity is seen more frequently in asthmatic than in nonasthmatic people.

#### **5.6 Renal Toxicity**

Phenylephrine hydrochloride injection can increase the need for renal replacement therapy in patients with septic shock. Monitor renal function.

#### **5.7 Risk of Augmented Pressor Affect in Patients with Autonomic Dysfunction**

The increasing blood pressure response to adrenergic drugs, including phenylephrine hydrochloride injection, can be increased in patients with autonomic dysfunction, as may occur with spinal cord injuries.

#### **5.8 Pressor Effect with Concomitant Oxytocic Drugs**

Oxytocic drugs potentiate the increasing blood pressure effect of sympathomimetic pressor amines including phenylephrine hydrochloride injection [see *Drug Interactions (7.1)*], with the potential for hemorrhagic stroke.

### **6 ADVERSE REACTIONS**

Adverse reactions to phenylephrine hydrochloride injection are primarily attributable to excessive pharmacologic activity. Adverse reactions reported in published clinical studies, observational trials, and case reports of phenylephrine hydrochloride injection are listed below by body system. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to estimate their frequency reliably or to establish a causal relationship to drug exposure.

Cardiac disorders: Reflex bradycardia, lowered cardiac output, ischemia, hypertension, arrhythmias

Gastrointestinal disorders: Epigastric pain, vomiting, nausea

Nervous system disorders: Headache, blurred vision, neck pain, tremors

Vascular disorders: Hypertensive crisis

Respiratory, Thoracic and Mediastinal Disorders: Dyspnea

Skin and subcutaneous tissue disorders: Pruritis

## **7 DRUG INTERACTIONS**

### **7.1 Interactions that Augment Pressor Effect**

The increasing blood pressure effect of phenylephrine hydrochloride injection is increased in patients receiving:

- Monoamine oxidase inhibitors (MAOI)
- Oxytocin and oxytocic drugs
- Tricyclic antidepressants
- Angiotensin, aldosterone
- Atropine
- Steroids, such as hydrocortisone
- Norepinephrine transporter inhibitors, such as atomoxetine
- Ergot alkaloids, such as methylergonovine maleate

### **7.2 Interactions that Antagonize the Pressor Effect**

The increasing blood pressure effect of phenylephrine hydrochloride injection is decreased in patients receiving:

- $\alpha$ -adrenergic antagonists
- Phosphodiesterase Type 5 inhibitors
- Mixed  $\alpha$ - and  $\beta$ -receptor antagonists
- Calcium channel blockers, such as nifedipine
- Benzodiazepines
- ACE inhibitors
- Centrally acting sympatholytic agents, such as reserpine, guanfacine

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### Risk Summary

Data from randomized controlled trials and meta-analyses with phenylephrine hydrochloride injection use in pregnant women during Cesarean section have not established a drug-associated risk of major birth defects and miscarriage. These studies have not identified an adverse effect on maternal outcomes or infant Apgar scores [see *Data*]. There are no data on the use of phenylephrine during the first or second trimester. In animal reproduction and development studies in normotensive animals, evidence of fetal malformations was noted when phenylephrine was administered during organogenesis via a 1-hour infusion at 1.2 times the human daily dose (HDD) of 10 mg/60 kg/day. Decreased pup weights were noted in offspring of pregnant rats treated with 2.9 times the HDD [See *Data*]. The estimated background risk of major birth defects and miscarriage for the indicated population are 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

clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

## Clinical Considerations

### *Disease-Associated Maternal and/or Embryofetal Risk*

Untreated hypotension associated with spinal anesthesia for Cesarean section is associated with an increase in maternal nausea and vomiting. A sustained decrease in uterine blood flow due to maternal hypotension may result in fetal bradycardia and acidosis.

## Data

### *Human Data*

Published randomized controlled trials over several decades, which compared the use of phenylephrine injection to other similar agents in pregnant women during Cesarean section, have not identified adverse maternal or infant outcomes. At recommended doses, phenylephrine does not appear to affect fetal heart rate or fetal heart rate variability to a significant degree.

There are no studies on the safety of phenylephrine injection exposure during the period of organogenesis, and therefore, it is not possible to draw any conclusions on the risk of birth defects following exposure to phenylephrine hydrochloride injection during pregnancy. In addition, there are no data on the risk of miscarriage following fetal exposure to phenylephrine hydrochloride injection.

### *Animal Data*

No clear malformations or fetal toxicity were reported when normotensive pregnant rabbits were treated with phenylephrine via continuous intravenous infusion over 1 hour (0.5 mg/kg/day; approximately equivalent to a HDD based on body surface area) from Gestation Day 7 to 19. At this dose, which demonstrated no maternal toxicity, there was evidence of developmental delay (altered ossification of sternebra).

In a non-GLP dose range-finding study in normotensive pregnant rabbits, fetal lethality and cranial, paw, and limb malformations were noted following treatment with 1.2 mg/kg/day of phenylephrine via continuous intravenous infusion over 1 hour (2.3-times the HDD). This dose was clearly maternally toxic (increased mortality and significant body weight loss). An increase in the incidence of limb malformation (hyperextension of the forepaw) coincident with high fetal mortality was noted in a single litter at 0.6 mg/kg/day (1.2-times the HDD) in the absence of maternal toxicity.

No malformations or embryo-fetal toxicity were reported when normotensive pregnant rats were treated with up to 3 mg/kg/day phenylephrine via continuous intravenous infusion over 1 hour (2.9-times the HDD) from Gestation Day 6 to 17. This dose was associated with some maternal toxicity (decreased food consumption and body weights).

Decreased pup weights were reported in a pre- and postnatal development toxicity study in which normotensive pregnant rats were administered phenylephrine via continuous intravenous infusion over 1 hour (0.3, 1.0, or 3.0 mg/kg/day; 0.29, 1, or 2.9 times the HDD) from Gestation Day 6 through Lactation Day 21). No adverse effects on growth and development (learning and memory, sexual development, and fertility) were noted in the offspring of pregnant rats at any dose tested. Maternal toxicities (mortality late in gestation and during lactation period, decreased food consumption and body

weight) occurred at 1 and 3 mg/kg/day of phenylephrine (equivalent to and 2.9 times the HDD, respectively).

## **8.2 Lactation**

### Risk Summary

There are no data on the presence of phenylephrine hydrochloride injection or its metabolite in human or animal milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for phenylephrine hydrochloride injection and any potential adverse effects on the breastfed infant from phenylephrine hydrochloride injection or from the underlying maternal condition.

## **8.4 Pediatric Use**

Safety and effectiveness in pediatric patients have not been established.

## **8.5 Geriatric Use**

Clinical studies of phenylephrine 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.

## **8.6 Hepatic Impairment**

In patients with liver cirrhosis [Child Pugh Class B and Class C], dose-response data indicate decreased responsiveness to phenylephrine. Start dosing in the recommended dose range, but more phenylephrine may be needed in this population.

## **8.7 Renal Impairment**

In patients with end stage renal disease (ESRD), dose-response data indicate increased responsiveness to phenylephrine. Consider starting at the lower end of the recommended dose range, and adjusting dose based on the target blood pressure goal.

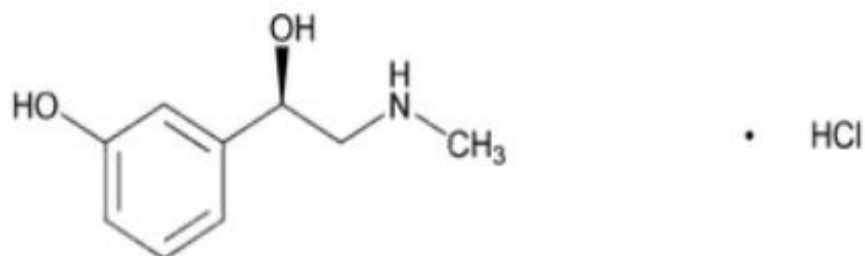
## **10 OVERDOSAGE**

Overdose of phenylephrine hydrochloride injection can cause a rapid rise in blood pressure. Symptoms of overdose include headache, vomiting, hypertension, reflex bradycardia, a sensation of fullness in the head, tingling of the extremities, and cardiac arrhythmias including ventricular extrasystoles and ventricular tachycardia.

## **11 DESCRIPTION**

Phenylephrine is an alpha-1 adrenergic receptor agonist. Phenylephrine hydrochloride injection USP, 10 mg/mL, is a clear, colorless, sterile, nonpyrogenic solution for intravenous use. It must be diluted before administration as an intravenous bolus or

continuous intravenous infusion. The chemical name of phenylephrine hydrochloride is (-)-*m*-hydroxy- $\alpha$ -[(methylamino)methyl]benzyl alcohol hydrochloride and is chemically designated as C<sub>9</sub>H<sub>13</sub>NO<sub>2</sub>.HCl with a molecular weight of 203.67 g/mol. Its structural formula is depicted below:



Phenylephrine hydrochloride, USP is freely soluble in water and in alcohol. Phenylephrine hydrochloride, USP is white or practically white, odorless powder. Phenylephrine hydrochloride injection USP, 10 mg/mL, is sensitive to light. Each mL contains: phenylephrine hydrochloride, USP 10 mg; sodium chloride, USP 3.5 mg; sodium citrate dihydrate, USP 4 mg; citric acid monohydrate, USP 1 mg; and sodium metabisulfite, NF 2 mg in water for injection, USP. The pH is adjusted with sodium hydroxide and/or hydrochloric acid if necessary. The pH range is 3.5 to 5.5.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Phenylephrine hydrochloride is an  $\alpha$ -1 adrenergic receptor agonist.

### 12.2 Pharmacodynamics

Interaction of phenylephrine with  $\alpha$ -1 adrenergic receptors on vascular smooth muscle cells causes activation of the cells and results in vasoconstriction. Following phenylephrine hydrochloride intravenous administration, increases in systolic and diastolic blood pressures, mean arterial blood pressure, and total peripheral vascular resistance are observed. The onset of blood pressure increase following an intravenous bolus phenylephrine hydrochloride administration is rapid, typically within minutes. As blood pressure increases following intravenous administration, vagal activity also increases, resulting in reflex bradycardia.

Phenylephrine has activity on most vascular beds, including renal, pulmonary, and splanchnic arteries.

### 12.3 Pharmacokinetics

Following an intravenous infusion of phenylephrine hydrochloride, the observed effective half-life was approximately 5 minutes. The steady-state volume of distribution of approximately 340 L suggests a high distribution into organs and peripheral tissues. The average total serum clearance is approximately 2100 mL/min. The observed phenylephrine plasma terminal elimination half-life was 2.5 hours.

Phenylephrine is metabolized primarily by monoamine oxidase and sulfotransferase. After intravenous administration of radiolabeled phenylephrine, approximately 80% of the total dose was eliminated within first 12 hours; and approximately 86% of the total dose was recovered in the urine within 48 hours. The excreted unchanged parent drug was 16% of the total dose in the urine at 48 hours post intravenous administration. There are two major metabolites, with approximately 57 and 8% of the total dose excreted as *m*-hydroxymandelic acid and sulfate conjugates, respectively. The metabolites are considered not pharmacologically active.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

#### Carcinogenesis

Long-term animal studies that evaluated the carcinogenic potential of orally administered phenylephrine hydrochloride in F344/N rats and B6C3F<sub>1</sub> mice were completed by the National Toxicology Program using the dietary route of administration. There was no evidence of carcinogenicity in mice administered approximately 270 mg/kg/day (131 times the human daily dose (HDD) of 10 mg/60 kg/day based on body surface area) or rats administered approximately 50 mg/kg/day (48 times HDD) based on body surface area comparisons.

#### Mutagenesis

Phenylephrine hydrochloride tested negative in the *in vitro* bacterial reverse mutation assay (*S. typhimurium* strains TA98, TA100, TA1535 and TA1537), the *in vitro* chromosomal aberrations assay, the *in vitro* sister chromatid exchange assay, and the *in vivo* rat micronucleus assay. Positive results were reported in only one of two replicates of the *in vitro* mouse lymphoma assay.

#### Impairment of Fertility

Phenylephrine did not impair mating, fertility, or reproductive outcome in normotensive male rats treated with 3 mg/kg/day phenylephrine via continuous intravenous infusion over 1 hour (2.9 times the HDD) for 28 days prior to mating and for a minimum of 63 days prior to sacrifice and female rats treated with the same dosing regimen for 14 days prior to mating and through Gestation Day 6. This dose was associated with increased mortality in both male and female rats and decreased body weight gain in treated males. There were decreased caudal sperm density and increased abnormal sperm reported in males treated with 3 mg/kg/day phenylephrine (2.9 times the HDD).

## **14 CLINICAL STUDIES**

The evidence for the efficacy of phenylephrine hydrochloride injection is derived from studies of phenylephrine hydrochloride in the published literature. The literature support

includes 16 studies evaluating the use of intravenous phenylephrine to treat hypotension during anesthesia. The 16 studies include 9 studies where phenylephrine was used in low-risk (ASA 1 and 2) pregnant women undergoing neuraxial anesthesia during Cesarean delivery, 6 studies in non-obstetric surgery under general anesthesia, and 1 study in non-obstetric surgery under combined general and neuraxial anesthesia. Phenylephrine has been shown to raise systolic and mean blood pressure when administered either as a bolus dose or by continuous infusion following the development of hypotension during anesthesia.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

Phenylephrine hydrochloride injection USP, 10 mg/mL, is a clear, colorless solution supplied as follows:

<b>NDC No.</b>	<b>Strength</b>	<b>How Supplied</b>	<b>AIN code</b>
36000-358-25	10 mg/mL	1 mL vial; for single use (supplied in packages of 25)	AIN03144
36000-360-10	10 mg/mL	5 mL vial; Pharmacy Bulk Package (supplied in packages of 10)	AIN03145
36000-362-05	10 mg/mL	10 mL vial; Pharmacy Bulk Package (supplied in packages of 5)	AIN03146

Vial stoppers are not made with natural rubber latex. Store phenylephrine hydrochloride injection USP, 10 mg/mL 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].

Protect from light. Store in carton until time of use. The 1 mL vials are for single-dose only; the 5 and 10 mL vials are pharmacy bulk packages.

The diluted solution should not be held for more than 4 hours at room temperature or for more than 24 hours under refrigerated conditions. Discard any unused portion.

## 17 PATIENT COUNSELING INFORMATION

If applicable, inform patient, family member, or caregiver that certain medical conditions and medications might influence how phenylephrine hydrochloride injection works.

Manufactured by:

**Baxter Pharmaceuticals India Private Ltd**  
Ahmedabad 382213, India

Manufactured for:

**Baxter Healthcare Corporation**  
Deerfield, IL 60015 USA

Rev. 2026-01-21

1400008754

**Phenylephrine Hydrochloride Injection, USP - 10 mg/mL**

NDC 36000-358-25 Rx only

**Phenylephrine Hydrochloride Injection, USP**

**10 mg/mL**

**For Intravenous Use**

**Must Be Diluted**

**Discard Unused Portion**

1 mL Single-dose Vial

**Protect from light**

NDC 36000-358-25 Rx only

**Phenylephrine  
Hydrochloride  
Injection, USP**

**10 mg/mL**

**For Intravenous Use**

**Must Be Diluted**

**Discard Unused Portion**

1 mL Single-Dose Vial

**Protect from light**

**Usual Dosage:** See package Insert.

**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 carton  
until time of use.

AIN03144

Rev. 2022-09-13

Manufactured for:

**Baxter Healthcare Corporation**

Deerfield, IL 60015 USA

Made in India

M.L. No.: G/28/1156



B. No. :

Exp. Dt. :

**1000016012**

NDC 36000-358-25 Rx only

**Phenylephrine Hydrochloride Injection, USP**

**10 mg/mL**

**For Intravenous Use**

**Must Be Diluted**

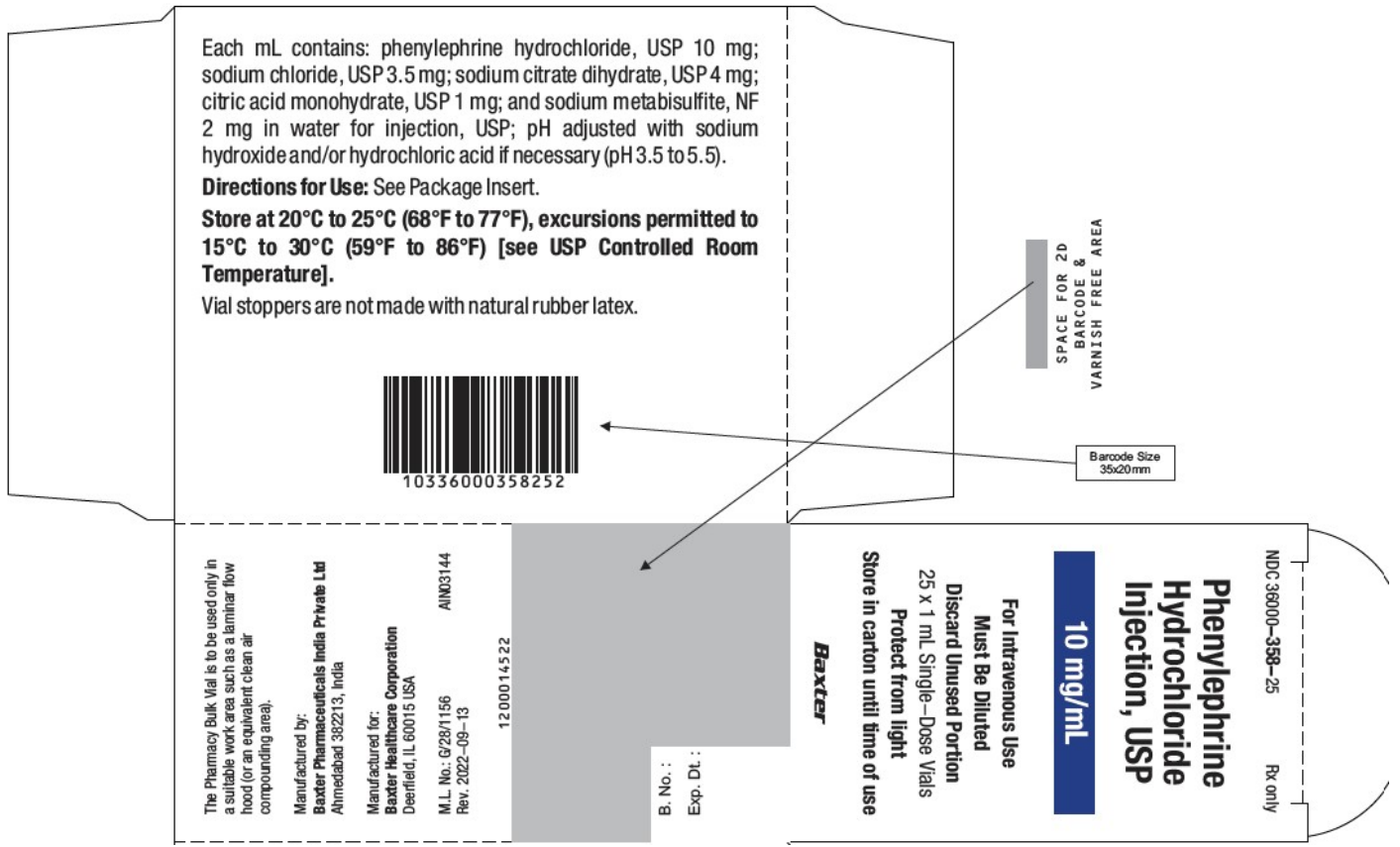
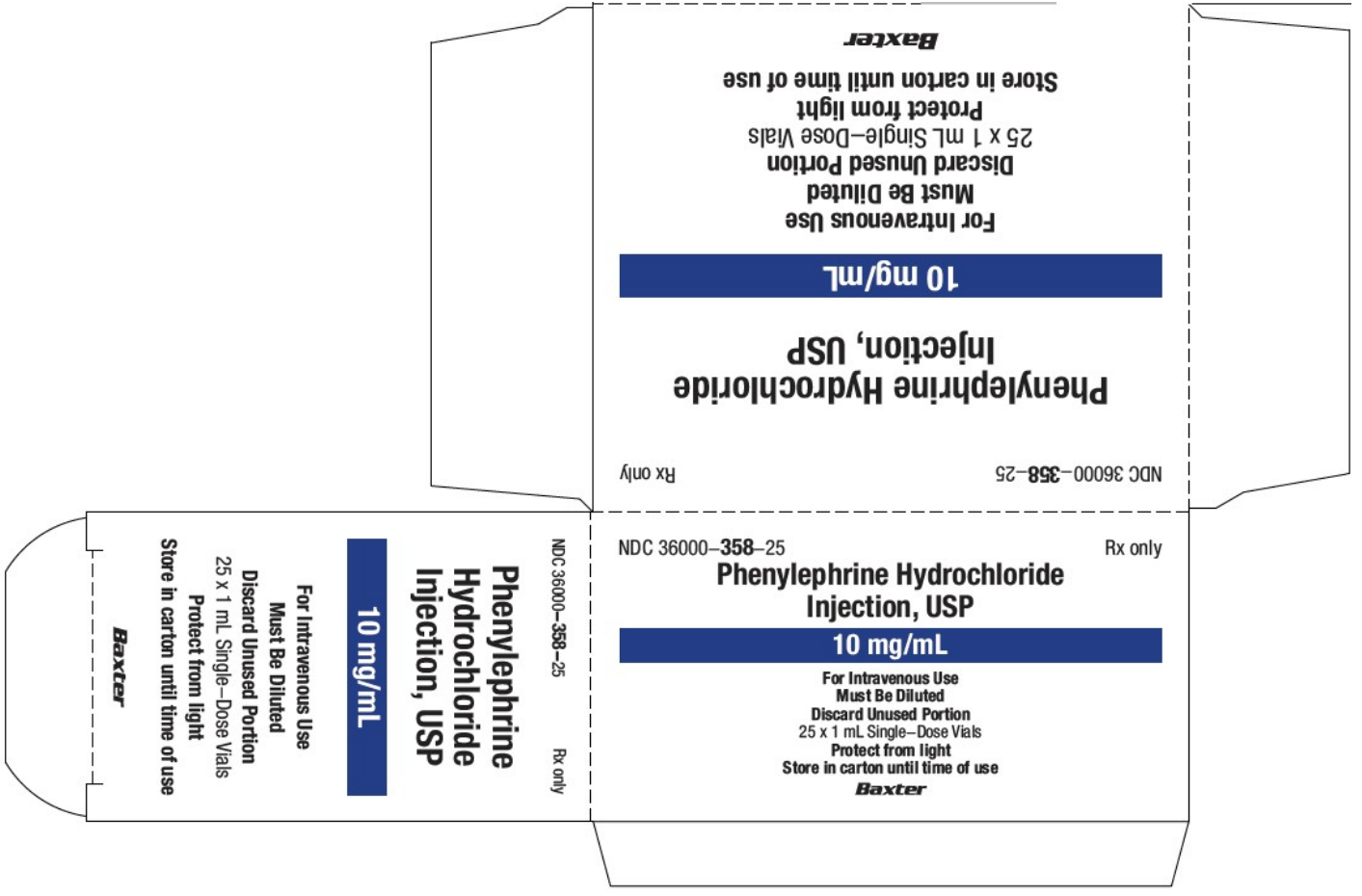
**Discard Unused Portion**

25 x 1 mL Single-Dose Vials

**Protect from light**

**Store in carton until time of use**

**Baxter**



Each mL contains: phenylephrine hydrochloride, USP 10 mg; sodium chloride, USP 3.5 mg; sodium citrate dihydrate, USP 4 mg; citric acid monohydrate, USP 1 mg; and sodium metabisulfite, NF 2 mg in water for injection, USP; pH adjusted with sodium hydroxide and/or hydrochloric acid if necessary (pH 3.5 to 5.5).

**Directions for Use:** See Package Insert.  
**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].**  
 Vial stoppers are not made with natural rubber latex.



SPACE FOR 2D  
 BARCODE &  
 VARNISH FREE AREA

Barcode Size  
 35x20mm

The Pharmacy Bulk Vial is to be used only in a suitable work area such as a laminar flow hood (or an equivalent clean air compounding area).  
 Manufactured by:  
**Baxter Pharmaceuticals India Private Ltd**  
 Ahmedabad 382213, India  
 Manufactured for:  
**Baxter Healthcare Corporation**  
 Deerfield, IL 60015 USA  
 M.L. No.: G/28/1156  
 Rev. 2022-09-13  
 12 0000 14 5 2 2 2  
 B. No. :  
 Exp. Dt. :

NDC 36000-358-25 Rx only  
**Phenylephrine Hydrochloride Injection, USP**  
**10 mg/mL**  
 For Intravenous Use  
 Must Be Diluted  
 Discard Unused Portion  
 25 x 1 mL Single-Dose Vials  
 Protect from light  
 Store in carton until time of use  
**Baxter**

**Phenylephrine Hydrochloride Injection, USP - 50 mg/5 mL**

NDC 36000-360-10 Rx only

**Phenylephrine Hydrochloride Injection, USP**

**50 mg/5 mL (10 mg/mL)**

**For Intravenous Use**

**Pharmacy Bulk Package - Not for Direct Infusion**

**Must Be Diluted**

5 mL Vial

**Protect from light**

**Baxter**

NDC 36000-360-10 Rx only Discard after  
Date \_\_\_/\_\_\_/\_\_\_  
Time \_\_\_\_\_

**Phenylephrine Hydrochloride Injection, USP**

**50 mg/5 mL (10 mg/mL)**

**For Intravenous Use**

**Pharmacy Bulk Package – Not for Direct Infusion**

**Must Be Diluted**

5 mL Vial


**Protect from light**

**Baxter**

The Pharmacy Bulk Vial is to be used only in a suitable work area such as a laminar flow hood (or an equivalent clean air compounding area). Dispensing from a pharmacy bulk vial should be completed within 4 hours after the vial is penetrated. **Directions for use:** See Package Insert. **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 carton until time of use.

Manufactured for: **Baxter Healthcare Corporation**  
Deerfield, IL 60015 USA  
Made in India

AIN03145  
Rev. 2022-09-13  
M.L. No.: G/28/1156



3 36000 36010 4

B. No. :  
Exp. Dt. :  
**1000016014**

NDC 36000-360-10 Rx only

**Phenylephrine Hydrochloride Injection, USP**

**50 mg/5 mL (10 mg/mL)**

**For Intravenous Use**

**Pharmacy Bulk Package - Not for Direct Infusion**

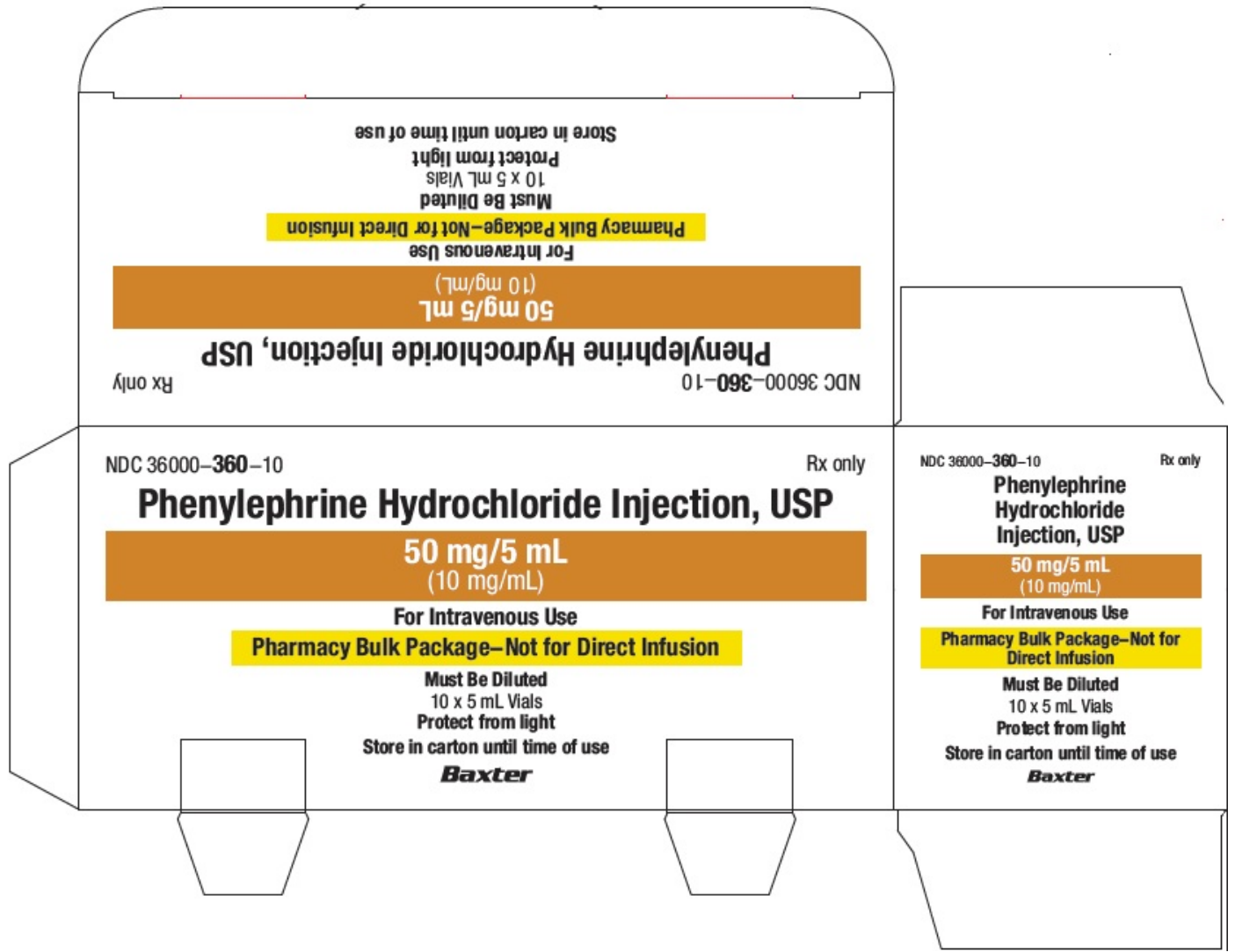
**Must Be Diluted**

10 x 5 mL Vials

**Protect from light**

**Store in carton until time of use**

**Baxter**



NDC 36000-360-10

Rx only

**Phenylephrine Hydrochloride Injection, USP**

**50 mg/5 mL**  
(10 mg/mL)

**For Intravenous Use**

**Pharmacy Bulk Package—Not for Direct Infusion**

**Must Be Diluted**  
10 x 5 mL Vials  
**Protect from light**  
Store in carton until time of use  
**Baxter**

NDC 36000-360-10

Rx only

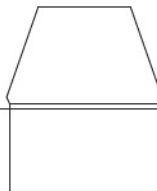
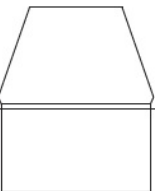
**Phenylephrine Hydrochloride Injection, USP**

**50 mg/5 mL**  
(10 mg/mL)

**For Intravenous Use**

**Pharmacy Bulk Package—Not for Direct Infusion**

**Must Be Diluted**  
10 x 5 mL Vials  
**Protect from light**  
Store in carton until time of use  
**Baxter**



Each mL contains: phenylephrine hydrochloride, USP 10 mg; sodium chloride, USP 3.5 mg; sodium citrate dihydrate, USP 4 mg; citric acid monohydrate, USP 1 mg; and sodium metabisulfite, NF 2 mg in water for injection, USP; pH adjusted with sodium hydroxide and/or hydrochloric acid if necessary (pH 3.5 to 5.5).  
**Directions for Use:** See Package Insert.  
**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].**  
Vial stoppers are not made with natural rubber latex.

The Pharmacy Bulk Vial is to be used only in a suitable work area such as a laminar flow hood (or an equivalent clean air compounding area).  
Manufactured by: **Baxter Pharmaceuticals India Private Ltd** M.L. No.: G/28/1156  
Ahmedabad 382213, India  
Manufactured for: **Baxter Healthcare Corporation** AIN03145  
Deerfield, IL 60015 USA  
Rev. 2022-09-13



1200014523



10336000360101

**Phenylephrine Hydrochloride Injection, USP - 100 mg/10 mL**

NDC 36000-362-05 Rx only

**Phenylephrine Hydrochloride Injection, USP**

**100 mg/10 mL** (10 mg/mL)

**For Intravenous Use**

**Pharmacy Bulk Package-Not for Direct Infusion**

**Must Be Diluted**

10 mL Vial

**Protect from light**

**Baxter**

NDC 36000-362-05 Rx only

**Phenylephrine  
Hydrochloride  
Injection, USP**

**100 mg/10 mL** (10 mg/mL)

**For Intravenous Use**

**Pharmacy Bulk Package-  
Not for Direct Infusion**

**Must Be Diluted**

10 mL Vial

**Protect from light** *Baxter*

**Discard after**  
**Date** \_\_\_/\_\_\_/\_\_\_  
**Time** \_\_\_\_\_

The Pharmacy Bulk Vial is to be used only in a suitable work area such as a laminar flow hood (or an equivalent clean air compounding area). Dispensing from a pharmacy bulk vial should be completed within 4 hours after the vial is penetrated. **Directions for use:** See Package Insert. **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 carton until time of use.

Rev. 2026-01-21

Made in India

Manufactured for:

**Baxter Healthcare Corporation**

Deerfield, IL 60015 USA

B. No. :

Exp. Dt. :

1000016291

AIN03146

M.L. No.: G/28/1156



NDC 36000-362-05 Rx only

**Phenylephrine Hydrochloride Injection, USP**

**100 mg/10 mL** (10 mg/mL)

**For Intravenous Use**

**Pharmacy Bulk Package-Not for Direct Infusion**

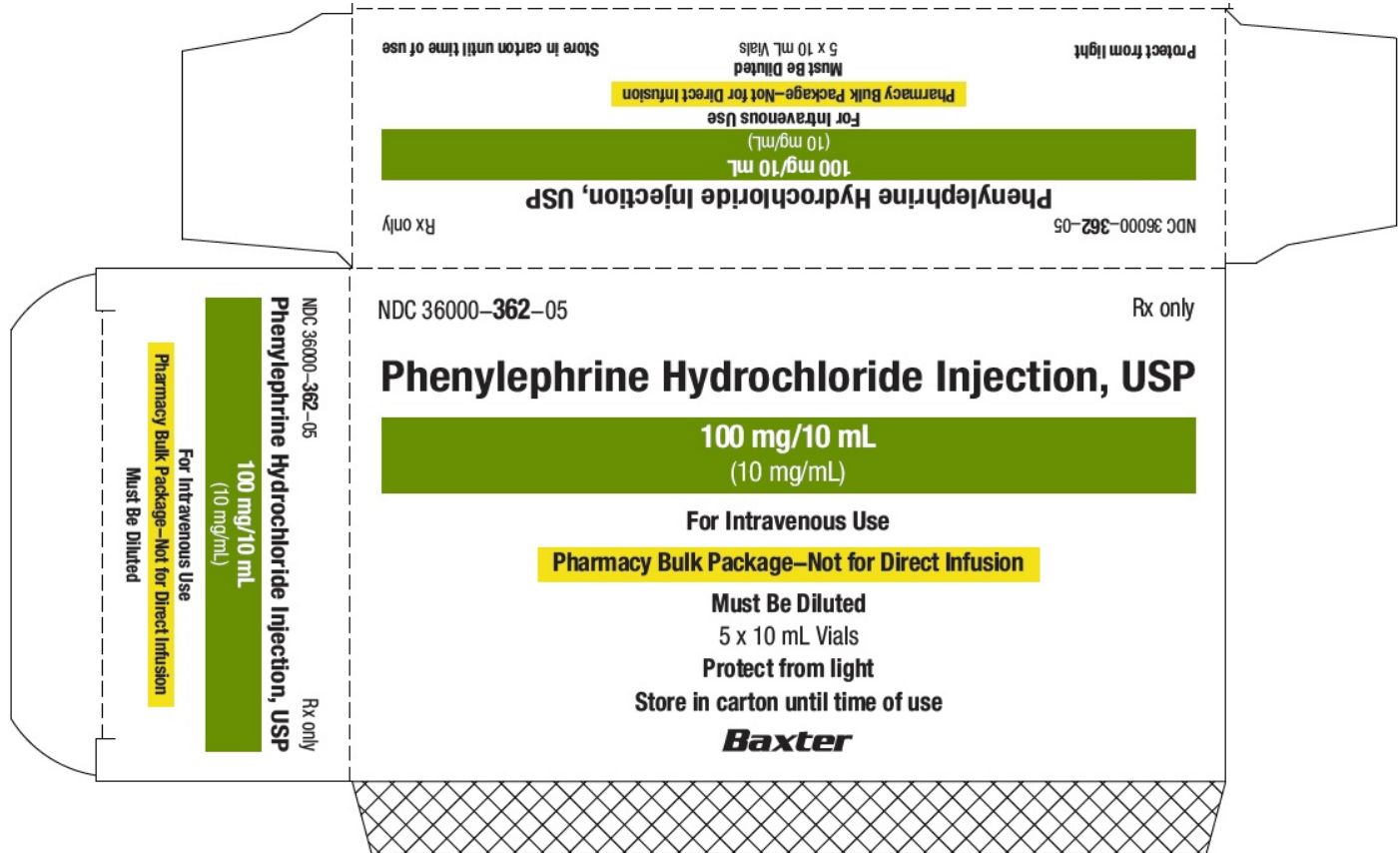
**Must Be Diluted**

5 x 10 mL Vials

**Protect from light**


**Store in carton until time of use**

**Baxter**



M.L. No.: G/28/1156 AIN03146  
Rev. 2026-01-21

Manufactured by:  
**Baxter Pharmaceuticals India Private Ltd**  
Ahmedabad 382213, India  
Manufactured for:  
**Baxter Healthcare Corporation**  
Deerfield, IL 60015 USA



Barcode size 35x24 mm

SPACE FOR 2D BARCODE & VARNISH FREE AREA

B. No. :  
Exp. Dt. :

Each mL contains: phenylephrine hydrochloride, USP 10 mg; sodium chloride, USP 3.5 mg; sodium citrate dihydrate, USP 4 mg; citric acid monohydrate, USP 1 mg; and sodium metabisulfite, NF 2 mg in water for injection, USP; pH adjusted with sodium hydroxide and/or hydrochloric acid if necessary (pH 3.5 to 5.5).

**Directions for Use:** See Package Insert.

**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].**

Vial stoppers are not made with natural rubber latex.

The Pharmacy Bulk Vial is to be used only in a suitable work area such as a laminar flow hood (or an equivalent clean air compounding area).

12 000 14 72 1

Rx only  
NDC 36000-362-05  
**Phenylephrine Hydrochloride Injection, USP**  
**100 mg/10 mL**  
(10 mg/mL)  
For Intravenous Use  
Pharmacy Bulk Package—Not for Direct Infusion  
Must Be Diluted

# PHENYLEPHRINE HYDROCHLORIDE

phenylephrine hydrochloride injection

## Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:36000-358
<b>Route of Administration</b>	INTRAVENOUS		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>PHENYLEPHRINE HYDROCHLORIDE</b> (UNII: 04JA59TNSJ) (PHENYLEPHRINE - UNII:1WS297W6MV)	PHENYLEPHRINE HYDROCHLORIDE	10 mg in 1 mL

## Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM CHLORIDE</b> (UNII: 451W47IQ8X)	3.5 mg in 1 mL
<b>TRISODIUM CITRATE DIHYDRATE</b> (UNII: B22547B95K)	4 mg in 1 mL
<b>CITRIC ACID MONOHYDRATE</b> (UNII: 2968PHW8QP)	1 mg in 1 mL
<b>SODIUM METABISULFITE</b> (UNII: 4VON5FNS3C)	2 mg in 1 mL
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>SODIUM HYDROXIDE</b> (UNII: 55X04QC32I)	
<b>HYDROCHLORIC ACID</b> (UNII: QTT17582CB)	

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:36000-358-25	25 in 1 CARTON	04/06/2026	
1		1 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA217032	04/06/2026	

## PHENYLEPHRINE HYDROCHLORIDE

phenylephrine hydrochloride injection

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:36000-360
Route of Administration	INTRAVENOUS		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHENYLEPHRINE HYDROCHLORIDE (UNII: 04JA59TNSJ) (PHENYLEPHRINE - UNII:1WS297W6MV)	PHENYLEPHRINE HYDROCHLORIDE	10 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	3.5 mg in 1 mL
TRISODIUM CITRATE DIHYDRATE (UNII: B22547B95K)	4 mg in 1 mL
CITRIC ACID MONOHYDRATE (UNII: 2968PHW8QP)	1 mg in 1 mL
SODIUM METABISULFITE (UNII: 4VON5FNS3C)	2 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:36000-360-10	10 in 1 CARTON	04/06/2026	
1		5 mL in 1 VIAL, PHARMACY BULK PACKAGE; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA217032	04/06/2026	

## PHENYLEPHRINE HYDROCHLORIDE

phenylephrine hydrochloride injection

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:36000-362
Route of Administration	INTRAVENOUS		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHENYLEPHRINE HYDROCHLORIDE (UNII: 04JA59TNSJ) (PHENYLEPHRINE - UNII:1WS297W6MV)	PHENYLEPHRINE HYDROCHLORIDE	10 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	3.5 mg in 1 mL
TRISODIUM CITRATE DIHYDRATE (UNII: B22547B95K)	4 mg in 1 mL
CITRIC ACID MONOHYDRATE (UNII: 2968PHW8QP)	1 mg in 1 mL
SODIUM METABISULFITE (UNII: 4VON5FNS3C)	2 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:36000-362-05	5 in 1 CARTON	04/06/2026	
1		10 mL in 1 VIAL, PHARMACY BULK PACKAGE; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA217032	04/06/2026	

**Labeler** - Baxter Healthcare Corporation (005083209)

**Registrant** - Baxter Healthcare Corporation (005083209)

## Establishment

Name	Address	ID/FEI	Business Operations
BAXTER PHARMACEUTICALS INDIA PRIVATE LIMITED		918603338	ANALYSIS(36000-358, 36000-360, 36000-362) , LABEL(36000-358, 36000-360, 36000-362) , MANUFACTURE(36000-358, 36000-360, 36000-362) , PACK(36000-358, 36000-360, 36000-362) , STERILIZE(36000-358, 36000-360, 36000-362)

Revised: 1/2026

Baxter Healthcare Corporation