

# **VASOSTRICT- vasopressin injection**

## **Par Pharmaceutical, Inc.**

### **HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use VASOSTRICT® safely and effectively. See full prescribing information for VASOSTRICT®.

**VASOSTRICT® (vasopressin injection) for intravenous use**

**VASOSTRICT® (vasopressin in dextrose injection) for intravenous use**

**Initial U.S. Approval: 2014**

### **INDICATIONS AND USAGE**

- Vasostrict® is indicated to increase blood pressure in adults with vasodilatory shock who remain hypotensive despite fluids and catecholamines. (1)

### **DOSAGE AND ADMINISTRATION**

- Dilute 20 units/mL single dose vial or 200 units/10 mL (20 units/mL) multiple dose vial contents with normal saline (0.9% sodium chloride) or 5% dextrose in water (D5W) to either 0.1 units/mL or 1 unit/mL for intravenous administration. Discard unused diluted solution after 18 hours at room temperature or 24 hours under refrigeration. (2.1)
- The 20 units/100 mL, 40 units/100 mL, 60 units/100 mL and 50 units/50 mL single dose vials do not require further dilution prior to administration. (2.1)
- Post-cardiotomy shock: 0.03 to 0.1 units/minute (2.2)
- Septic shock: 0.01 to 0.07 units/minute (2.2)

### **DOSAGE FORMS AND STRENGTHS**

- Injection:
  - 20 units/mL in a single dose vial. To be used after dilution.
  - 200 units/10 mL (20 units/mL) in a multiple dose vial. To be used after dilution.
  - 20 units/100 mL (0.2 units/mL) premixed in dextrose in a single dose vial. Ready to use.
  - 40 units/100 mL (0.4 units/mL) premixed in dextrose in a single dose vial. Ready to use.
  - 60 units/100 mL (0.6 units/mL) premixed in dextrose in a single dose vial. Ready to use.
  - 50 units/50 mL (1 unit/mL) premixed in dextrose in a single dose vial. Ready to use.

### **CONTRAINDICATIONS**

- Vasostrict® 10 mL multiple dose vial is contraindicated in patients with known allergy or hypersensitivity to 8-L-arginine vasopressin or chlorobutanol. The 1 mL single dose vial, 50 mL and 100 mL pre-mixed single dose vial does not contain chlorobutanol and is therefore contraindicated only in patients with a known allergy or hypersensitivity to 8-L-arginine vasopressin. (4)

### **WARNINGS AND PRECAUTIONS**

- Can worsen cardiac function. (5.1)
- Reversible diabetes insipidus (5.2)

### **ADVERSE REACTIONS**

The most common adverse reactions include decreased cardiac output, bradycardia, tachyarrhythmias, hyponatremia and ischemia (coronary, mesenteric, skin, digital). (6)

**To report SUSPECTED ADVERSE REACTIONS, contact Par Pharmaceutical at 1-800-828-9393 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

### **DRUG INTERACTIONS**

- Pressor effects of catecholamines and Vasostrict® are expected to be additive. (7.1)
- Indomethacin may prolong effects of Vasostrict®. (7.2)
- Co-administration of ganglionic blockers or drugs causing SIADH may increase the pressor response. (7.3, 7.4)
- Co-administration of drugs causing diabetes insipidus may decrease the pressor response. (7.5)

### **USE IN SPECIFIC POPULATIONS**

- **Pregnancy:** May induce uterine contractions. (8.1)
- **Pediatric Use:** Safety and effectiveness have not been established. (8.4)
- **Geriatric Use:** No safety issues have been identified in older patients. (8.5)

**Revised: 2/2023**

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

## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

Vasostriect<sup>®</sup> is indicated to increase blood pressure in adults with vasodilatory shock who remain hypotensive despite fluids and catecholamines.

### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Preparation of Solution

Inspect parenteral drug products for particulate matter and discoloration prior to use, whenever solution and container permit.

#### **Vasostriect<sup>®</sup> Solution for Dilution, 20 units/mL and 200 units/10 mL (20 units/mL)**

Dilute Vasostriect<sup>®</sup> in normal saline (0.9% sodium chloride) or 5% dextrose in water (D5W) prior to use for intravenous administration. Discard unused diluted solution after 18 hours at room temperature or 24 hours under refrigeration.

**Table 1 Preparation of diluted solutions**

Fluid restriction?	Final concentration	Mix	
		Vasostriect <sup>®</sup>	Diluent

No	0.1 units/mL	2.5 mL (50 units)	500 mL
Yes	1 unit/mL	5 mL (100 units)	100 mL

**Vasostriect® Premixed Solution, 20 units/100 mL (0.2 units/mL), 40 units/100 mL (0.4 units/mL), 60 units/100 mL (0.6 units/mL) and 50 units/50 mL (1 unit/mL)**

This product does not require further dilution prior to administration.

## 2.2 Administration

In general, titrate to the lowest dose compatible with a clinically acceptable response.

The recommended starting dose is:

*Post-cardiotomy shock:* 0.03 units/minute

*Septic Shock:* 0.01 units/minute

Titrate up by 0.005 units/minute at 10- to 15-minute intervals until the target blood pressure is reached. There are limited data for doses above 0.1 units/minute for post-cardiotomy shock and 0.07 units/minute for septic shock. Adverse reactions are expected to increase with higher doses.

After target blood pressure has been maintained for 8 hours without the use of catecholamines, taper vasopressin injection by 0.005 units/minute every hour as tolerated to maintain target blood pressure.

## 3 DOSAGE FORMS AND STRENGTHS

Injection: vasopressin injection, USP is a clear, practically colorless solution available as:

- 20 units/mL in a single dose vial. To be used after dilution.
- 200 units/10 mL (20 units/mL) in a multiple dose vial. To be used after dilution.
- 20 units/100 mL (0.2 units/mL) premixed in dextrose in a single dose vial. Ready to use.
- 40 units/100 mL (0.4 units/mL) premixed in dextrose in a single dose vial. Ready to use.
- 60 units/100 mL (0.6 units/mL) premixed in dextrose in a single dose vial. Ready to use.
- 50 units/50 mL (1 unit/mL) premixed in dextrose in a single dose vial. Ready to use.

## 4 CONTRAINDICATIONS

Vasostriect® 10 mL multiple dose vial is contraindicated in patients with known allergy or hypersensitivity to 8-L-arginine vasopressin or chlorobutanol. The 1 mL single dose vial, 50 mL and 100 mL pre-mixed single dose vial does not contain chlorobutanol and is therefore contraindicated only in patients with a known allergy or hypersensitivity to 8-L-arginine vasopressin.

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Worsening Cardiac Function

A decrease in cardiac index may be observed with the use of vasopressin.

### 5.2 Reversible Diabetes Insipidus

Patients may experience reversible diabetes insipidus, manifested by the development of polyuria, a dilute urine, and hypernatremia, after cessation of treatment with vasopressin. Monitor serum electrolytes, fluid status and urine output after vasopressin discontinuation. Some patients may require readministration of vasopressin or administration of desmopressin to correct fluid and electrolyte shifts.

## 6 ADVERSE REACTIONS

The following adverse reactions associated with the use of vasopressin were identified in the literature. Because these reactions are reported voluntarily from a population of uncertain size, it is not possible to estimate their frequency reliably or to establish a causal relationship to drug exposure.

Bleeding/lymphatic system disorders: Hemorrhagic shock, decreased platelets, intractable bleeding

Cardiac disorders: Right heart failure, atrial fibrillation, bradycardia, myocardial ischemia

Gastrointestinal disorders: Mesenteric ischemia

Hepatobiliary: Increased bilirubin levels

Renal/urinary disorders: Acute renal insufficiency

Vascular disorders: Distal limb ischemia

Metabolic: Hyponatremia

Skin: Ischemic lesions

### Postmarketing Experience

Reversible diabetes insipidus [see Warnings and Precautions (5.2)]

## 7 DRUG INTERACTIONS

### 7.1 Catecholamines

Use with *catecholamines* is expected to result in an additive effect on mean arterial blood pressure and other hemodynamic parameters. Hemodynamic monitoring is recommended; adjust the dose of vasopressin as needed.

### 7.2 Indomethacin

Use with *indomethacin* may prolong the effect of Vasostrict® on cardiac index and systemic vascular resistance. Hemodynamic monitoring is recommended; adjust the dose of vasopressin as needed [see Clinical Pharmacology (12.3)].

### 7.3 Ganglionic Blocking Agents

Use with *ganglionic blocking agents* may increase the effect of Vasostrict® on mean arterial blood pressure. Hemodynamic monitoring is recommended; adjust the dose of vasopressin as needed [see Clinical Pharmacology (12.3)].

### 7.4 Drugs Suspected of Causing SIADH

Use with *drugs suspected of causing SIADH* (e.g., SSRIs, tricyclic antidepressants, haloperidol, chlorpropamide, enalapril, methyldopa, pentamidine, vincristine, cyclophosphamide, ifosfamide, felbamate) may increase the pressor effect in addition to the antidiuretic effect of Vasostrict®. Hemodynamic monitoring is recommended; adjust the dose of vasopressin as needed.

### 7.5 Drugs Suspected of Causing Diabetes Insipidus

Use with *drugs suspected of causing diabetes insipidus* (e.g., demeclocycline, lithium, foscarnet, clozapine) may decrease the pressor effect in addition to the antidiuretic effect of Vasostrict®. Hemodynamic monitoring is recommended; adjust the dose of vasopressin as needed.

## 8 USE IN SPECIFIC POPULATIONS

## 8.1 Pregnancy

### Risk Summary

There are no available data on Vasostrict® use in pregnant women to inform a drug associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. Animal reproduction studies have not been conducted with vasopressin.

### Clinical Considerations

*Dose adjustments during pregnancy and the postpartum period:* Because of increased clearance of vasopressin in the second and third trimester, the dose of Vasostrict® may need to be increased [see *Dosage and Administration* (2.2) and *Clinical Pharmacology* (12.3)].

*Maternal adverse reactions:* Vasostrict® may produce tonic uterine contractions that could threaten the continuation of pregnancy.

## 8.2 Lactation

There are no data on the presence of vasopressin injection in either human or animal milk, the effects on the breastfed infant, or the effects on milk production.

## 8.4 Pediatric Use

Safety and effectiveness of Vasostrict® in pediatric patients with vasodilatory shock have not been established.

## 8.5 Geriatric Use

Clinical studies of vasopressin 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 [see *Warnings and Precautions* (5), *Adverse Reactions* (6), and *Clinical Pharmacology* (12.3)].

## 10 OVERDOSAGE

Overdosage with Vasostrict® can be expected to manifest as consequences of vasoconstriction of various vascular beds (peripheral, mesenteric, and coronary) and as hyponatremia. In addition, overdosage may lead less commonly to ventricular tachyarrhythmias (including Torsade de Pointes), rhabdomyolysis, and non-specific gastrointestinal symptoms.

Direct effects will resolve within minutes of withdrawal of treatment.

## 11 DESCRIPTION

Vasopressin is a polypeptide hormone. Vasostrict® is a sterile, aqueous solution of synthetic arginine vasopressin for intravenous administration.

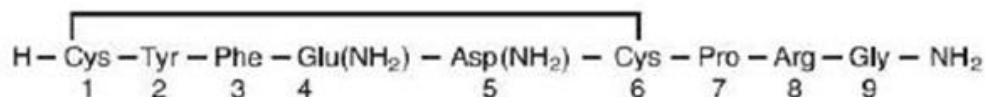
The 1 mL solution contains vasopressin 20 units/mL, 1.36 mg sodium acetate buffer and Water for Injection, USP. The 10 mL solution contains vasopressin 20 units/mL, 1.36 mg sodium acetate buffer, chlorobutanol, NF 0.5% as a preservative and Water for Injection, USP. Sodium hydroxide and hydrochloric acid are included to adjust to a pH of 3.8.

The 50 mL solution contains vasopressin 1 unit/mL. Each mL of the 1 unit/mL strength also contains dextrose anhydrous, 0.0546 mg acetic acid, 0.012 mg sodium acetate and Water for Injection, USP. Sodium hydroxide and hydrochloric acid are included to adjust to a pH of 3.8.

The 100 mL solution contains vasopressin 0.2 units/mL, 0.4 units/mL, or 0.6 units/mL.

Each mL of the 0.2 unit/mL strength also contains dextrose anhydrous, 0.0546 mg acetic acid, 0.012 mg sodium acetate and Water for Injection, USP. Each mL of the 0.4 unit/mL strength also contains dextrose anhydrous, 0.0546 mg acetic acid, 0.012 mg sodium acetate and Water for Injection, USP. Each mL of the 0.6 unit/mL strength also contains dextrose anhydrous, 0.0546 mg acetic acid, 0.012 mg sodium acetate and Water for Injection, USP. Sodium hydroxide and hydrochloric acid are included to adjust to a pH of 3.8.

Each vial of the VASOSTRICT® premixed solutions contains 5% Dextrose in approximately 100 mL Water for Injection. The chemical name of vasopressin is Cyclo (1-6) L-Cysteiny-L-Tyrosyl-L-Phenylalanyl-L-Glutaminyl-L-Asparaginy-L-Cysteiny-L-Prolyl-L-Arginy-L-Glycinamide. It is a white to off-white amorphous powder, freely soluble in water. The structural formula is:



Molecular Formula: C<sub>46</sub>H<sub>65</sub>N<sub>15</sub>O<sub>12</sub>S<sub>2</sub>

Molecular Weight: 1084.23

One mg is equivalent to 530 units.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Vasopressin causes vasoconstriction by binding to V<sub>1</sub> receptors on vascular smooth muscle coupled to the Gq/11-phospholipase C-phosphatidyl-inositol-triphosphate pathway, resulting in the release of intracellular calcium. In addition, vasopressin stimulates antidiuresis via stimulation of V<sub>2</sub> receptors which are coupled to adenylyl cyclase.

### 12.2 Pharmacodynamics

At therapeutic doses exogenous vasopressin elicits a vasoconstrictive effect in most vascular beds including the splanchnic, renal and cutaneous circulation. In addition, vasopressin at pressor doses triggers contractions of smooth muscles in the gastrointestinal tract mediated by muscular V<sub>1</sub>-receptors and release of prolactin and ACTH via V<sub>3</sub> receptors. At lower concentrations typical for the antidiuretic hormone vasopressin inhibits water diuresis via renal V<sub>2</sub> receptors. In addition, vasopressin has been demonstrated to cause vasodilation in numerous vascular beds that are mediated by V<sub>2</sub>, V<sub>3</sub>, oxytocin and purinergic P<sub>2</sub> receptors.

In patients with vasodilatory shock vasopressin in therapeutic doses increases systemic vascular resistance and mean arterial blood pressure and reduces the dose requirements for norepinephrine. Vasopressin tends to decrease heart rate and cardiac output. The pressor effect is proportional to the infusion rate of exogenous vasopressin. The pressor effect reaches its peak within 15 minutes. After stopping the infusion the pressor effect fades within 20 minutes. There is no evidence for tachyphylaxis or tolerance to the pressor effect of vasopressin in patients.

### 12.3 Pharmacokinetics

Vasopressin plasma concentrations increase linearly with increasing infusion rates from 10 to 200 µU/kg/min. Steady state plasma concentrations are achieved after 30 minutes of continuous intravenous infusion.

Distribution Vasopressin does not appear to bind plasma protein. The volume of distribution is 140 mL/kg.

Elimination

At infusion rates used in vasodilatory shock (0.01 to 0.1 units/minute), the clearance of vasopressin is 9 to 25 mL/min/kg in patients with vasodilatory shock. The apparent  $t_{1/2}$  of vasopressin at these levels is  $\leq 10$  minutes.

#### Metabolism

Serine protease, carboxipeptidase and disulfide oxido-reductase cleave vasopressin at sites relevant for the pharmacological activity of the hormone. Thus, the generated metabolites are not expected to retain important pharmacological activity.

#### Excretion

Vasopressin is predominantly metabolized and only about 6% of the dose is excreted unchanged into urine.

#### Specific Populations

*Pregnancy:* Because of a spillover into blood of placental vasopressinase, the clearance of exogenous and endogenous vasopressin increases gradually over the course of a pregnancy. During the first trimester of pregnancy, the clearance is only slightly increased. However, by the third trimester the clearance of vasopressin is increased about 4-fold and at term up to 5-fold. After delivery, the clearance of vasopressin returns to preconception baseline within two weeks.

*Drug Interactions* Indomethacin more than doubles the time to offset for vasopressin's effect on peripheral vascular resistance and cardiac output in healthy subjects [see *Drug Interactions* (7.2)].

The ganglionic blocking agent tetra-ethylammonium increases the pressor effect of vasopressin by 20% in healthy subjects [see *Drug Interactions* (7.3)].

Halothane, morphine, fentanyl, alfentanyl and sufentanyl do not impact exposure to endogenous vasopressin.

## **13 NONCLINICAL TOXICOLOGY**

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

No formal carcinogenicity or fertility studies with vasopressin have been conducted in animals. Vasopressin was found to be negative in the *in vitro* bacterial mutagenicity (Ames) test and the *in vitro* Chinese hamster ovary (CHO) cell chromosome aberration test. In mice, vasopressin has been reported to have an effect on function and fertilizing ability of spermatozoa.

### **13.2 Animal Toxicology and/or Pharmacology**

No toxicology studies were conducted with vasopressin.

## **14 CLINICAL STUDIES**

Increases in systolic and mean blood pressure following administration of vasopressin were observed in 7 studies in septic shock and 8 in post-cardiotomy vasodilatory shock.

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

Vasostrict® (vasopressin injection, USP) is a clear, practically colorless solution for intravenous administration available as:

NDC 42023-164-10: A carton of 10 single dose vials. Each vial contains vasopressin 1 mL at 20 units/mL.

NDC 42023-164-25: A carton of 25 single dose vials. Each vial contains vasopressin 1 mL at 20 units/mL.

NDC 42023-190-01: A carton of 1 multiple dose vial. Each vial contains vasopressin 10 mL at 200 units/10 mL (20 units/mL).

NDC 42023-219-10: A carton of 10 single dose vials. Each vial contains vasopressin premixed in dextrose 100 mL at 40 units/100 mL (0.4 units/mL).

NDC 42023-220-10: A carton of 10 single dose vials. Each vial contains vasopressin premixed in dextrose 100 mL at 60 units/100 mL (0.6 units/mL).

NDC 42023-237-10: A carton of 10 single dose vials. Each vial contains vasopressin premixed in dextrose 100 mL at 20 units/100 mL (0.2 units/mL).

NDC 42023-268-10: A carton of 10 single dose vials. Each vial contains vasopressin premixed in dextrose 50 mL at 50 units/50 mL (1 unit/mL).

Store between 2°C and 8°C (36°F and 46°F). Do not freeze.

Vials may be held up to 12 months upon removal from refrigeration to room temperature storage conditions (20°C to 25°C [68°F to 77°F], USP Controlled Room Temperature), anytime within the labeled shelf life. Once removed from refrigeration, unopened vial should be marked to indicate the revised 12 month expiration date. If the manufacturer's original expiration date is shorter than the revised expiration date, then the shorter date must be used. Do not use Vasostrict® beyond the manufacturer's expiration date stamped on the vial.

After initial entry into the 10 mL vial, the remaining contents must be refrigerated.

Discard the refrigerated 10 mL vial after 30 days after first puncture.

The storage conditions and expiration periods are summarized in the following table.

	Unopened Refrigerated 2°C to 8°C (36°F to 46°F)	Unopened Room Temperature 20°C to 25°C (68°F to 77°F) Do not store above 25°C (77°F)	Opened (After First Puncture)
1 mL Vial	Until manufacturer expiration date	12 months or until manufacturer expiration date, whichever is earlier	N/A
10 mL Vial	Until manufacturer expiration date	12 months or until manufacturer expiration date, whichever is earlier	30 days
50 mL Vial	Until manufacturer expiration date	12 months or until manufacturer expiration date, whichever is earlier	N/A
100 mL Vial	Until manufacturer expiration date	12 months or until manufacturer expiration date, whichever is earlier	N/A

Distributed by:

**Par Pharmaceutical**

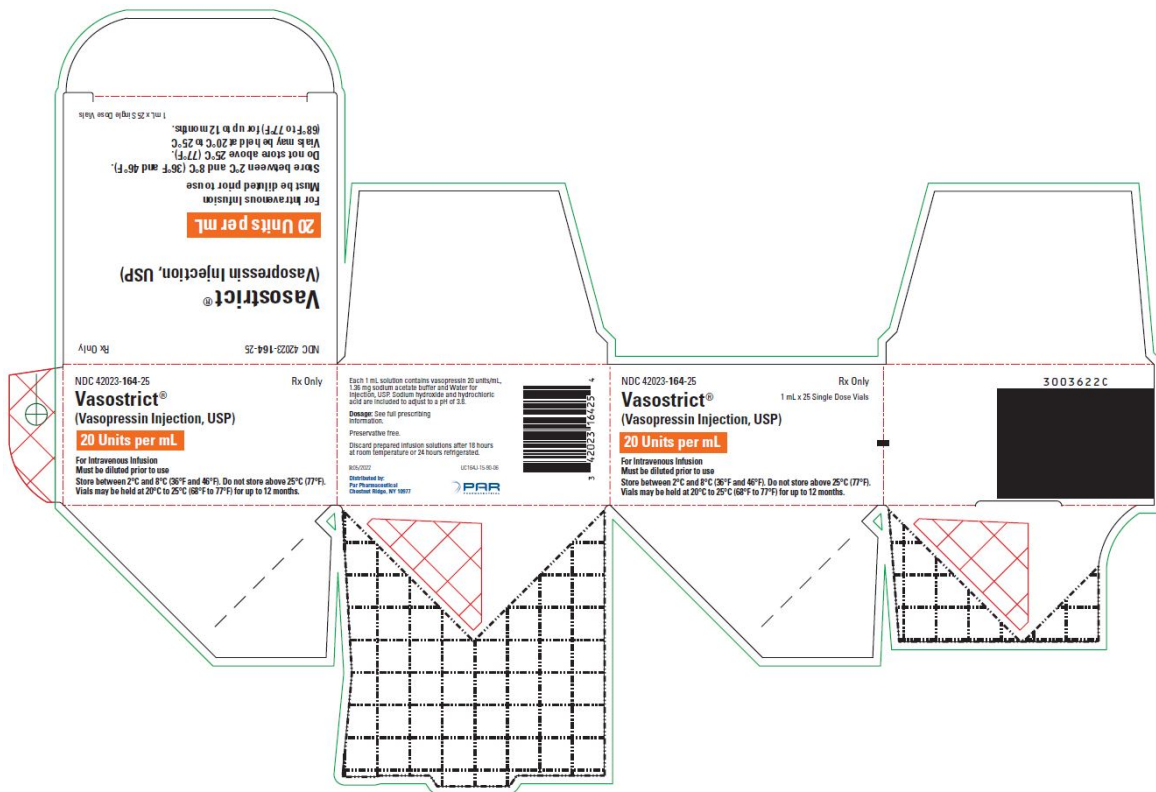
Chestnut Ridge, NY 10977

R02/2023

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**PRINCIPAL DISPLAY PANEL - 20 units/mL x 25 Vial Carton**

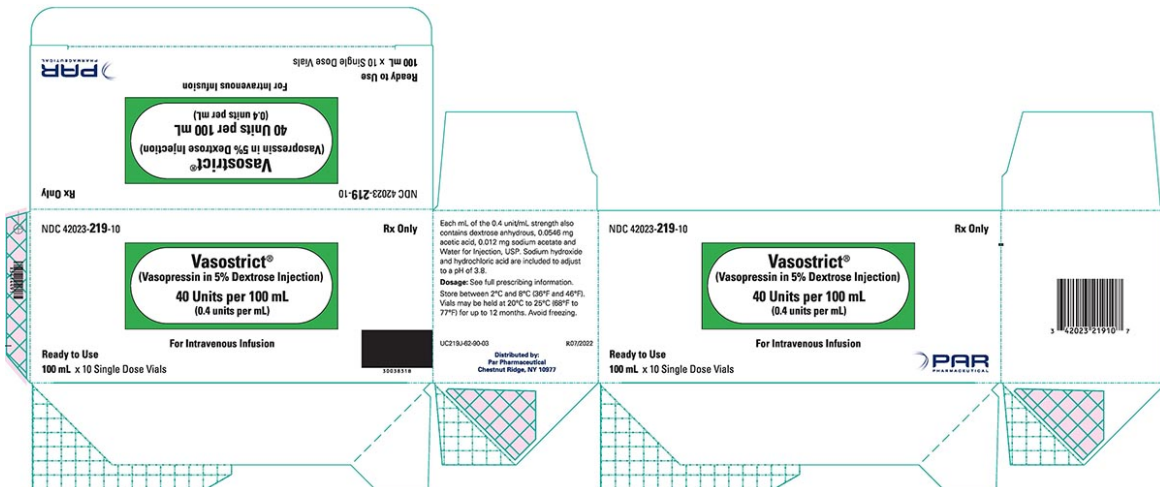




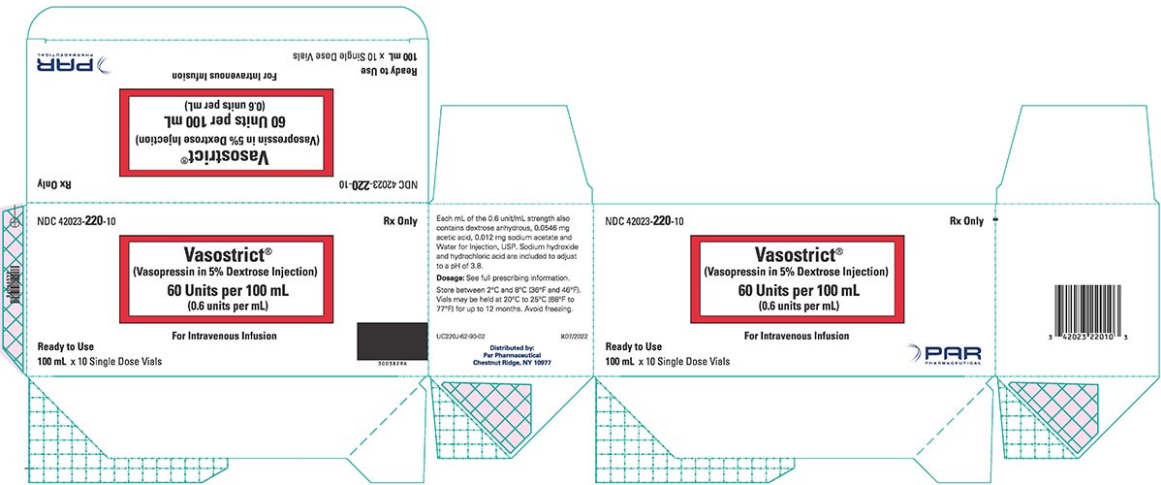
**PRINCIPAL DISPLAY PANEL - 200 units/10 mL x 1 Vial Carton**



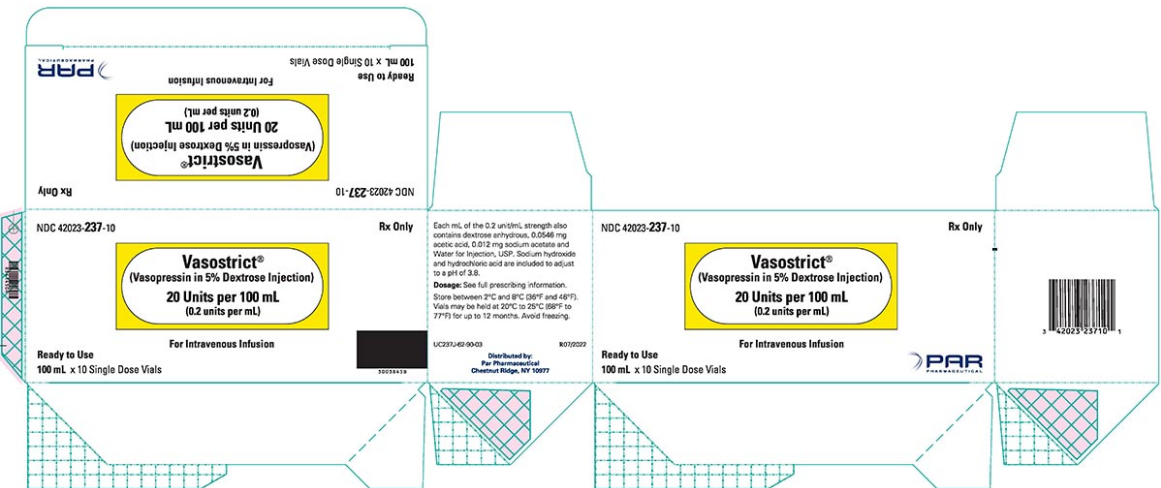
## PRINCIPAL DISPLAY PANEL - 40 units/100 mL x 10 Vial Carton



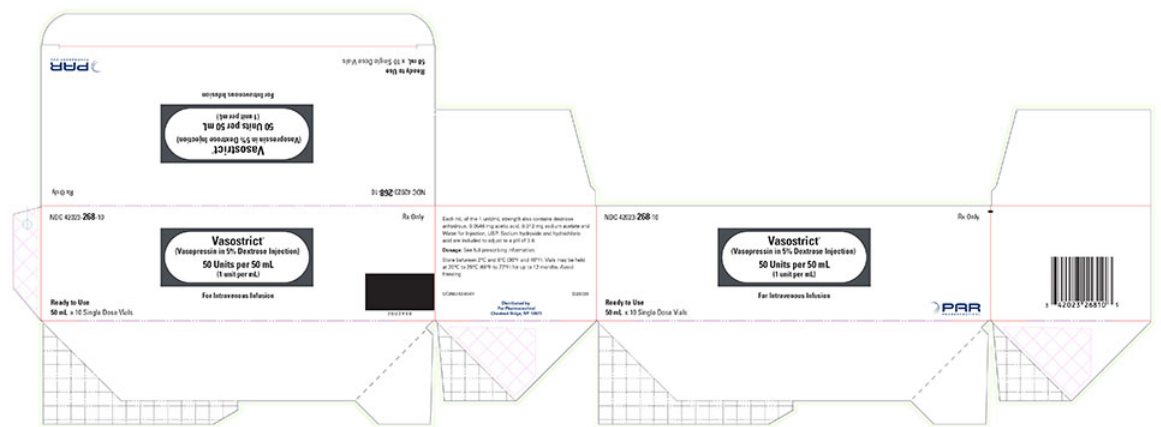
PRINCIPAL DISPLAY PANEL - 60 units/100 mL x 10 Vial Carton



PRINCIPAL DISPLAY PANEL - 20 units/100 mL x 10 Vial Carton



PRINCIPAL DISPLAY PANEL - 50 units/50 mLx 10 Vial Carton



VASOSTRICT

vasopressin injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42023-164
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
VASOPRESSIN, UNSPECIFIED (UNII: Y87Y826H08) (VASOPRESSIN, UNSPECIFIED - UNII:Y87Y826H08)			VASOPRESSIN, UNSPECIFIED	20 [USP'U] in 1 mL
Inactive Ingredients				
Ingredient Name			Strength	
WATER (UNII: 059QF0KO0R)				
SODIUM ACETATE (UNII: 4550K0SC9B)			1.36 mg in 1 mL	
SODIUM HYDROXIDE (UNII: 55X04QC32I)				
HYDROCHLORIC ACID (UNII: QTT17582CB)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42023-164-25	25 in 1 CARTON	11/12/2014	
1	NDC:42023-164-01	1 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:42023-164-10	10 in 1 CARTON	08/17/2020	
2	NDC:42023-164-01	1 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA		NDA204485	11/12/2014	

## VASOSTRICT

vasopressin injection

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42023-190
Route of Administration	INTRAVENOUS		
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
VASOPRESSIN, UNSPECIFIED (UNII: Y87Y826H08) (VASOPRESSIN, UNSPECIFIED - UNII:Y87Y826H08)		VASOPRESSIN, UNSPECIFIED	20 [USP'U] in 1 mL
Inactive Ingredients			
Ingredient Name		Strength	
WATER (UNII: 059QF0K00R)			
SODIUM ACETATE (UNII: 4550K0SC9B)		1.36 mg in 1 mL	
CHLOROBUTANOL (UNII: HM4YQM8WRC)		5 mg in 1 mL	
SODIUM HYDROXIDE (UNII: 55X04QC32I)			
HYDROCHLORIC ACID (UNII: QTT17582CB)			

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42023-190-01	1 in 1 CARTON	02/27/2017	
1		10 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation		Marketing Start Date	Marketing End Date
NDA	NDA204485		02/27/2017	

## VASOSTRICT

vasopressin injection

Product Information				
Product Type		HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42023-219
Route of Administration		INTRAVENOUS		
Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
VASOPRESSIN, UNSPECIFIED (UNII: Y87Y826H08) (VASOPRESSIN, UNSPECIFIED - UNII:Y87Y826H08)			VASOPRESSIN, UNSPECIFIED	0.4 [USP'U] in 1 mL
Inactive Ingredients				
Ingredient Name			Strength	
WATER (UNII: 059QF0KO0R)				
DEXTROSE (UNII: IY9XDZ 35W2)				
ACETIC ACID (UNII: Q40Q9N063P)			0.0546 mg in 1 mL	
SODIUM ACETATE (UNII: 4550K0SC9B)			0.012 mg in 1 mL	
SODIUM HYDROXIDE (UNII: 55X04QC32I)				
HYDROCHLORIC ACID (UNII: QTT17582CB)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42023-219-10	10 in 1 CARTON	12/15/2021	
1	NDC:42023-219-01	100 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA		NDA204485	12/15/2021	

## VASOSTRICT

vasopressin injection

Product Information				
Product Type		HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42023-220
Route of Administration		INTRAVENOUS		
Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
VASOPRESSIN, UNSPECIFIED (UNII: Y87Y826H08) (VASOPRESSIN, UNSPECIFIED - UNII:Y87Y826H08)			VASOPRESSIN, UNSPECIFIED	0.6 [USP'U] in 1 mL
Inactive Ingredients				
Ingredient Name			Strength	
WATER (UNII: 059QF0KO0R)				
DEXTROSE (UNII: IY9XDZ 35W2)				
ACETIC ACID (UNII: Q40Q9N063P)			0.0546 mg in 1 mL	
SODIUM ACETATE (UNII: 4550K0SC9B)			0.012 mg in 1 mL	
SODIUM HYDROXIDE (UNII: 55X04QC32I)				
HYDROCHLORIC ACID (UNII: QTT17582CB)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42023-220-10	10 in 1 CARTON	12/15/2021	12/15/2021
1	NDC:42023-220-01	100 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA		NDA204485	12/15/2021	12/15/2021

## VASOSTRICT

vasopressin injection

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42023-237
Route of Administration	INTRAVENOUS		
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
VASOPRESSIN, UNSPECIFIED (UNII: Y87Y826H08) (VASOPRESSIN, UNSPECIFIED - UNII:Y87Y826H08)		VASOPRESSIN, UNSPECIFIED	0.2 [USP'U] in 1 mL
Inactive Ingredients			
Ingredient Name		Strength	
WATER (UNII: 059QF0K00R)			
DEXTROSE (UNII: IY9XDZ35W2)			
ACETIC ACID (UNII: Q40Q9N063P)		0.0546 mg in 1 mL	
SODIUM ACETATE (UNII: 4550K0SC9B)		0.012 mg in 1 mL	

<b>SODIUM HYDROXIDE</b> (UNII: 55X04QC32I)				
<b>HYDROCHLORIC ACID</b> (UNII: QTT17582CB)				
<b>Packaging</b>				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42023-237-10	10 in 1 CARTON	12/15/2021	
1	NDC:42023-237-01	100 mL in 1 VIAL; Type 0: Not a Combination Product		
<b>Marketing Information</b>				
<b>Marketing Category</b>		<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
NDA		NDA204485	12/15/2021	

Vasopressin Injection				
vasopressin injection				
Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42023-268	
Route of Administration	INTRAVENOUS			
Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
VASOPRESSIN, UNSPECIFIED (UNII: Y87Y826H08) (VASOPRESSIN, UNSPECIFIED - UNII:Y87Y826H08)		VASOPRESSIN, UNSPECIFIED	1 [USP'U] in 1 mL	
Inactive Ingredients				
Ingredient Name		Strength		
WATER (UNII: 059QF0K00R)				
DEXTROSE (UNII: IY9XDZ35W2)				
ACETIC ACID (UNII: Q40Q9N063P)		0.0546 mg in 1 mL		
SODIUM ACETATE (UNII: 4550K0SC9B)		0.012 mg in 1 mL		
SODIUM HYDROXIDE (UNII: 55X04QC32I)				
HYDROCHLORIC ACID (UNII: QTT17582CB)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42023-268-10	10 in 1 CARTON	12/01/2023	12/01/2023
1	NDC:42023-268-01	50 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA		NDA204485	12/01/2023	12/01/2023

Revised: 11/2023

Par Pharmaceutical, Inc.