# DEXTROSE- dextrose monohydrate injection, solution Medical Purchasing Solutions, LLC

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INFANT

25% DEXTROSE Injection, USP

### CONCENTRATED DEXTROSE FOR INTRAVENOUS ADMINISTRATION TO INFANTS

.

NOTE: This solution is hypertonic—see Warnings and Precautions.

**Ansyr™ Plastic Syringe** 

Rx only

### **DESCRIPTION**

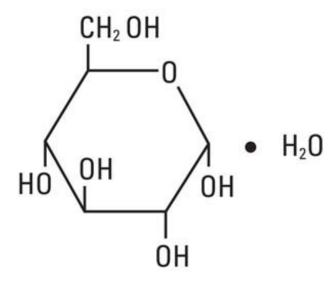
25% Dextrose Injection, USP is a sterile, nonpyrogenic, hypertonic solution of dextrose in water for injection administered by intravenous injection to restore blood glucose levels in hypoglycemia and as a source of carbohydrate calories. Each milliliter (mL) of fluid contains dextrose, hydrous, 250 mg which delivers 3.4 kcal/gram (0.85 kcal/mL). The solution has an osmolarity of 1.39 mOsmol/mL (calc.). pH is 3.2 to 6.5. May contain hydrochloric acid and sodium hydroxide for pH adjustment.

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

25% Dextrose Injection, USP is a dextrose (glucose) and nutrient (carbohydrate) replenisher.

Dextrose, USP is chemically designated D-glucose monohydrate, (C  $_6$ H  $_{12}$ O  $_6$  • H  $_2$ O), a hexose sugar freely soluble in water.

It has the following structural formula:



The syringe is molded from a specially formulated polypropylene. Water permeates from inside the container at an extremely slow rate which will have an insignificant effect on solution concentration over the expected shelf life. Solutions in contact with the plastic container may leach out certain chemical components from the plastic in very small amounts; however, biological testing was supportive of the safety of the syringe material.

### CLINICAL PHARMACOLOGY

When administered intravenously, this solution restores blood glucose levels in hypoglycemia and provides a source of carbohydrate calories. Carbohydrate in the form of dextrose may aid in minimizing liver glycogen depletion and exerts a protein-sparing action. Dextrose injection undergoes oxidation to carbon dioxide and water.

25% Dextrose Injection, USP provides a concentrated solution sufficiently nonirritating for slow intravenous injection to infants for terminating acute symptomatic episodes of hypoglycemia in the neonate and in older infants (fasting blood glucose below 40 mg/100 mL). Values as low as 20 mg/100 mL are not uncommon in normal asymptomatic infants the first few days of life (longer in premature infants).

Symptoms of hypoglycemia in the newborn and small infants may be difficult to evaluate and convulsions often are the first or only recognized manifestation of depressed blood glucose levels. Because of widely varied etiology, the precise cause may be difficult to establish. Hypoglycemia (deficient blood glucose) due to organic or functional hyperinsulinism, may be only temporarily abated by administration of dextrose (glucose) and may rebound to hypoglycemia levels as release of additional insulin is evoked. In addition to various other causes, an idiopathic form of hypoglycemia in infancy has been described, as well as occasional transitory hypoglycemia in the neonatal period which disappears in later infancy. Fetal hyperinsulinism in response to maternal hyperglycemia of diabetic mothers has been observed. Occasionally convulsions associated with severe hypoglycemia are observed in infants of diabetic mothers.

Since glucose is the only sugar utilized for metabolic requirements of human neural tissue, it is essential to restore deficient blood glucose levels from any cause in order to prevent or correct central nervous system dysfunction.

#### INDICATIONS AND USAGE

25% Dextrose Injection is indicated in the treatment of acute symptomatic episodes of hypoglycemia in the neonate or older infant to restore depressed blood glucose levels and control symptoms. Other drugs, such as epinephrine and glucagon, should be considered in patients unresponsive or intolerant to dextrose (glucose). Oral feeding of dextrose may be necessary in infants with frequently recurring hypoglycemic episodes or to prevent recurrences due to hyperinsulinemia.

25% Dextrose Injection also provides a minimal source of carbohydrate calories.

### CONTRAINDICATIONS

A concentrated dextrose solution should not be used when intracranial or intraspinal hemorrhage is present.

### WARNINGS

25% Dextrose Injection, USP is hypertonic and may cause phlebitis and thrombosis at the site of injection.

Significant hyperglycemia and possible hyperosmolar syndrome may result from too rapid administration. The physician should be aware of the symptoms of hyperosmolar syndrome, such as loss of consciousness.

### **PRECAUTIONS**

Frequent monitoring of serum glucose concentrations is required when intravenous dextrose is given to pediatric patients, particularly neonates and low birth weight infants. Do not administer unless the solution is clear and seal is intact. Discard unused portion.

Solutions containing dextrose should be used with caution in infants of diabetic mothers except as may be indicated in neonates who are hypoglycemic.

Care should be exercised to insure that the needle is well within the lumen of the vein and that extravasation does not occur. If thrombosis should occur during administration, the injection should be stopped and corrective measures instituted.

Concentrated dextrose solutions should not be administered subcutaneously or intramuscularly.

### Carcinogenesis, Mutagenesis, Impairment of Fertility:

Studies with 25% dextrose solutions in polypropylene syringes have not been performed to evaluate carcinogenic potential, mutagenic potential or effects on fertility.

### **Pregnancy**

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

### **ADVERSE REACTIONS**

Hyperosmolar syndrome, resulting from excessively rapid administration of concentrated dextrose may cause mental confusion and/or loss of consciousness.

Reactions which may occur because of the solution or the technique of administration include febrile response, infection at the site of injection, venous thrombosis or phlebitis extending from the site of injection and extravasation.

If an adverse reaction does occur, discontinue the infusion, evaluate the patient, institute appropriate therapeutic countermeasures, and save the remainder of the fluid for examination if deemed necessary.

### **OVERDOSAGE**

In the event of overdosage (hyperglycemia) during therapy, re-evaluate the patient and institute appropriate corrective measures. (See **WARNINGS** and **PRECAUTIONS**.)

### DOSAGE AND ADMINISTRATION

When possible, glucose concentrations of greater than 12% should be administered by central vein to reduce the risk for phlebitis and thrombosis. 25% Dextrose Injection, USP is administered only by *slow* intravenous injection.

The dosage and constant infusion rate of intravenous dextrose must be selected with caution, particularly in neonates and low birth weight infants, because of the increased risk of hyperglycemia/ hypoglycemia. In the neonate, an injection of 250 to 500 mg (1 to 2 mL)/kg/dose (5 to 10 mL of 25% dextrose in a 5 kg infant) is recommended to control acute symptomatic hypoglycemia (tremors, convulsions, etc.).

Larger or repeated single doses (up to 10 or 12 mL of 25% dextrose) may be required in severe cases or older infants. A specimen for blood glucose determination should be taken before injecting the dextrose. In such emergencies, dextrose should be administered promptly without awaiting pretreatment test results.

Subsequent continuous intravenous infusion of 10% dextrose injection may be needed to stabilize blood glucose levels. Further treatment should be guided by evaluation of the underlying disorder.

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

#### **HOW SUPPLIED**

25% Dextrose Injection, USP is supplied in single-dose containers as follows:

NDC No.	Container	Size
0409-1775-10	Ansyr™ Plastic Syringe	10 mL

Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

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

LAB-1057-3.0

Revised: June 2020

### PRINICIPAL DISPLAY PANEL - SYRINGE LABEL

10 mL Single-dose

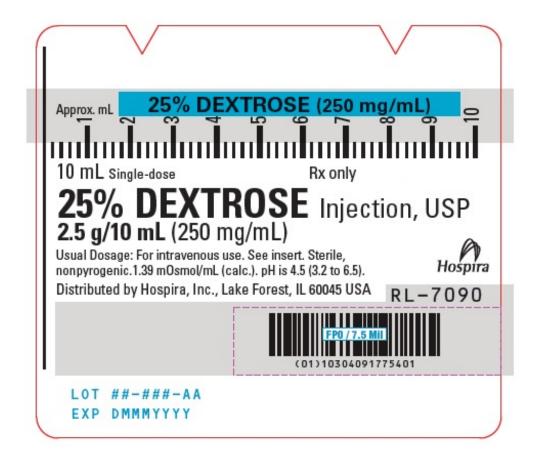
Rx only

25% DEXTROSE Injection, USP

2.5 g/10 mL (250 mg/mL)

Usual Dosage: For intravenous use. See insert. Sterile,

nonpyrogenic.1.39 mOsmol/mL (calc.). pH is 4.5 (3.2 to 6.5).



#### PRINICIPAL DISPLAY PANEL - OUTER PACKAGE

NDC 71872-7214-1

Infant

25%

**DEXTROSE** 

Injection, USP

1 X 2.5 g/10 mL

(250 mg/mL)

Ansyr™

Unit of Use Syringe

Rx only



R only



(01) 0 0871872 72141 7 (17) 000101 (10) 10006-100000X

(21) 7214A000000

Infant 25% DEXTROSE Injection, USP 2.5 g/10 mL (250 mg/mL)

Qty: 1 Box Lot# XXXX-XXXXXX

Exp: 01/01/1900

Ansyr™ Unit of Use Syringe

Each mL contains dextrose, hydrous 250 mg. May contain HCl and and NaOH for pH adjustment. 1,39 mOsmol/mL (calc.). pH is 4.5 (3.2 to 6.5). Medication and fluid path are sterile and nonpyrogenic if cap is in place and package is intact.

Single-dose unit. Discard unused portion. For intravenous use.

Usual dosage: See insert.

Store at 20 to 25°C (68 to 77°F). [see USP Controlled Room Temperature.]

Manufactured By: Hospira, Inc. Manufacturer NDC: 00409-1775-10

Repackaged & Distributed By:



Medical Purchasing Solutions Scottsdale, AZ 85260

www.medicalpurchasingsolutions.com

### **DEXTROSE**

dextrose monohydrate injection, solution

Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71872-7214(NDC:0409- 1775)		
Route of Administration	INTRAVENOUS				

Active Ingredient/Active Moiety				
Ingredient Name	Basis of Strength	Strength		
<b>DEXTROSE MONOHYDRATE</b> (UNII: LX22YL083G) (ANHYDROUS DEXTROSE - UNII:5SL0G7R0OK)	DEXTROSE MONOHYDRATE	250 mg in 1 mL		

Inactive Ingredients				
Ingredient Name	Strength			
WATER (UNII: 059QF0KO0R)				
HYDROCHLORIC ACID (UNII: QTT17582CB)				
SODIUM HYDROXIDE (UNII: 55X04QC32I)				

Packaging					
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:71872- 7214-1	1 in 1 BAG	06/05/2020		
1		1 in 1 CARTON			
1		10 mL in 1 SYRINGE, PLASTIC; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)			

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
NDA	NDA019445	02/22/2006		

## **Labeler -** Medical Purchasing Solutions, LLC (601458529)

Establishment				
Name	Address	ID/FEI	<b>Business Operations</b>	
Medical Purchasing Solutions, LLC		601458529	repack(71872-7214)	

Revised: 5/2023 Medical Purchasing Solutions, LLC