Ringer's Injection, USP
Ringer's and 5% Dextrose Injection, USP

Flexible Plastic Container
Rx only

DESCRIPTION
These products are sterile, nonpyrogenic solutions each containing isotonic concentrations of electrolytes (with or without dextrose) in water for injection. The solutions containing dextrose and electrolytes are hypertonic; those containing only electrolytes are isotonic. They are administered by intravenous infusion for parenteral replacement of extracellular losses of fluid and electrolytes, with or without minimal carbohydrate calories.

Each 100 mL of Ringer's Injection, USP contains sodium chloride 860 mg, potassium chloride 30 mg and calcium chloride, dihydrate 33 mg. May contain hydrochloric acid and/or sodium hydroxide for pH adjustment. A liter provides 147 mEq sodium (Na⁺), 4 mEq potassium (K⁺), 4 mEq calcium (Ca++) and 155 mEq chloride (Cl⁻). The electrolyte content is isotonic (309 mOsmol/liter, calc.) in relation to the extracellular fluid (approx. 280 mOsmol/liter). The pH of the solution is 5.4 (5.0 – 7.5).

Each 100 mL of Ringer's and 5% Dextrose Injection, USP contains dextrose, hydrous 5 g plus the same ingredients and mEq values as Ringer's Injection, USP. A liter provides 170 calories (from dextrose) and has a hypertonic osmolar concentration of 561 mOsmol (calc.). The pH is 4.3 (3.5 – 6.5).

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

The solutions are parenteral fluid, nutrient and/or electrolyte replenishers.

Dextrose, USP is chemically designated D-glucose, monohydrate (C₆H₁₂O₆·H₂O), a hexose sugar freely soluble in water. It has the following structural formula:
Calcium Chloride, USP is chemically designated calcium chloride, dihydrate (CaCl$_2$·2H$_2$O), white fragments or granules freely soluble in water.

Potassium Chloride, USP is chemically designated KCl, a white granular powder freely soluble in water.

Sodium Chloride, USP is chemically designated NaCl, a white crystalline powder freely soluble in water.

Water for Injection, USP is chemically designated H$_2$O.

The flexible plastic container is fabricated from a specially formulated polyvinylchloride. Water can permeate from inside the container into the overwrap but not in amounts sufficient to affect the solution significantly. Solutions inside the plastic container also can leach out certain of their chemical components in very small amounts before the expiration period is attained. However, the safety of the plastic has been confirmed by tests in animals according to USP biological standards for plastic containers.

**CLINICAL PHARMACOLOGY**

When administered intravenously, these solutions provide sources of water and electrolytes with or without minimal carbohydrate calories. Their electrolyte content resembles that of the principal ionic constituents of normal plasma and the solutions therefore are suitable for parenteral replacement of extracellular losses of fluid and electrolytes, with or without carbohydrate calories.

Solutions containing carbohydrate in the form of dextrose restore blood glucose levels and provide calories.
Carbohydrate in the form of dextrose may aid in minimizing liver glycogen depletion and exerts a protein-sparing action. Dextrose injected parenterally undergoes oxidation to carbon dioxide and water.

Calcium chloride in water dissociates to provide calcium (Ca\(^{++}\)) and chloride (Cl\(^{-}\)) ions. They are normal constituents of the body fluids and are dependent on various physiologic mechanisms for maintenance of balance between intake and output. Approximately 80% of body calcium is excreted in the feces as insoluble salts; urinary excretion accounts for the remaining 20%.

Potassium chloride in water dissociates to provide potassium (K\(^{+}\)) and chloride (Cl\(^{-}\)) ions. Potassium is found in low concentration in plasma and extracellular fluids (3.5 to 5.0 mEq/liter in a healthy adult). It is the chief cation of body cells (160 mEq/liter of intracellular water). Potassium plays an important role in electrolyte balance. Normally about 80 to 90% of the potassium intake is excreted in the urine; the remainder in the stools and to a small extent, in the perspiration. The kidney does not conserve potassium well so that during fasting or in patients on a potassium-free diet, potassium loss from the body continues resulting in potassium depletion.

Sodium chloride in water dissociates to provide sodium (Na\(^{+}\)) and chloride (Cl\(^{-}\)) ions. Sodium (Na\(^{+}\)) is the principal cation of the extracellular fluid and plays a large part in the therapy of fluid and electrolyte disturbances. Chloride (Cl\(^{-}\)) has an integral role in buffering action when oxygen and carbon dioxide exchange occurs in the red blood cells. The distribution and excretion of sodium (Na\(^{+}\)) and chloride (Cl\(^{-}\)) are largely under the control of the kidney which maintains a balance between intake and output.

Water is an essential constituent of all body tissues and accounts for approximately 70% of total body weight. Average normal adult daily requirement ranges from two to three liters (1.0 to 1.5 liters each for insensible water loss by perspiration and urine production).

Water balance is maintained by various regulatory mechanisms. Water distribution depends primarily on the concentration of electrolytes in the body compartments and sodium (Na\(^{+}\)) plays a major role in maintaining physiologic equilibrium.

**INDICATIONS AND USAGE**

These solutions are indicated for parenteral replacement of extracellular losses of fluid and electrolytes, with or without minimal carbohydrate calories, as required by the clinical condition of the patient.

**Contraindications**

n/a

**WARNINGS**

Solutions containing calcium ions should not be administered simultaneously through the same administration set as blood because of the likelihood of coagulation.

Solutions which contain potassium should be used with great care, if at all, in patients with hyperkalemia, severe renal failure and in conditions in which potassium retention is present.

Solutions containing sodium ions should be used with great care, if at all, in patients with congestive heart failure, severe renal insufficiency and in clinical states in which there exists edema with sodium retention.

In patients with diminished renal function, administration of solutions containing sodium or potassium ions may result in sodium or potassium retention.

Solutions containing lactate ions should be used with great care in patients with metabolic or respiratory alkalosis. The administration of lactate ions should be done with great care where there is
an increased level or an impaired utilization of lactate ions, as in severe hepatic insufficiency.

The intravenous administration of these solutions can cause fluid and/or solute overloading resulting in dilution of serum electrolyte concentrations, overhydration, congested states or pulmonary edema. The risk of dilutional states is inversely proportional to the electrolyte concentrations of administered parenteral solutions.

The risk of solute overload causing congested states with peripheral and pulmonary edema is directly proportional to the electrolyte concentrations of such solutions.

**PRECAUTIONS**

Clinical evaluation and periodic laboratory determinations are necessary to monitor changes in fluid balance, electrolyte concentrations and acid-base balance during prolonged parenteral therapy or whenever the condition of the patient warrants such evaluation.

Solutions containing dextrose should be used with caution in patients with known subclinical or overt diabetes mellitus.

Caution must be exercised in the administration of parenteral fluids, especially those containing sodium ions, to patients receiving corticosteroids or corticotropin.

Potassium containing solutions should be used with caution in the presence of cardiac disease, particularly in digitalized patients or in the presence of renal disease.

Solutions containing lactate ions should be used with caution as excess administration may result in metabolic alkalosis.

Do not administer unless solution is clear and container is undamaged. Discard unused portion.

**Information for Patients**

n/a

**Pregnancy Category C.**

Animal reproduction studies have not been conducted with Ringer's Injection, USP, Ringer's and Dextrose Injection, USP, Lactated Ringer's Injection, USP or Lactated Ringer's and Dextrose Injection, USP. It is also not known whether these injections can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. These injections should be given to a pregnant woman only if clearly needed.

**Pediatric Use:**

The safety and effectiveness in the pediatric population are based on the similarity of the clinical conditions of the pediatric and adult populations. In neonates or very small infants the volume of fluid may affect fluid and electrolyte balance.

Frequent monitoring of serum glucose concentrations is required when dextrose is prescribed to pediatric patients, particularly neonates and low birth weight infants.

In very low birth weight infants, excessive or rapid administration of dextrose injection may result in increased serum osmolarity and possible intracerebral hemorrhage.

**ADVERSE REACTIONS**

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, extravasation and hypervolemia.

If an adverse reaction does occur, discontinue the infusion, evaluate the patient, institute appropriate
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 overhydration or solute overload, re-evaluate the patient and institute appropriate corrective measures. See **WARNINGS, PRECAUTIONS, and ADVERSE REACTIONS**.

**DOSAGE AND ADMINISTRATION**

The dose is dependent upon the age, weight and clinical condition of the patient.

As reported in the literature, the dosage and constant infusion rate of intravenous dextrose must be selected with caution in pediatric patients, particularly neonates and low birth weight infants, because of the increased risk of hyperglycemia/hypoglycemia.

**Drug Interactions**

Additives may be incompatible. Consult with pharmacist, if available. When introducing additives, use aseptic technique, mix thoroughly and do not store.

The presence of calcium limits their compatibility with certain drugs that form precipitates of calcium salts, and also prohibits their simultaneous infusion through the same administration set as blood because of the likelihood of coagulation.

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

**INSTRUCTIONS FOR USE**

**To Open:**

Tear outer wrap at notch and remove solution container. If supplemental medication is desired, follow directions below before preparing for administration. Some opacity of the plastic due to moisture absorption during the sterilization process may be observed. This is normal and does not affect the solution quality or safety. The opacity will diminish gradually.

**To Add Medication**

1. Prepare additive port.
2. Using aseptic technique and an additive delivery needle of appropriate length, puncture resealable additive port at target area, inner diaphragm and inject. Withdraw needle after injecting medication.
3. The additive port may be protected by covering with an additive cap.
4. Mix container contents thoroughly.

**Preparation for Administration**

(Use aseptic technique)

1. Close flow control clamp of administration set.
2. Remove cover from outlet port at bottom of container.
3. Insert piercing pin of administration set into port with a twisting motion until the set is firmly seated.
   
   **NOTE:** See full directions on administration set carton.
4. Suspend container from hanger.
5. Squeeze and release drip chamber to establish proper fluid level in chamber.
6. Open flow control clamp and clear air from set. Close clamp.
7. Attach set to venipuncture device. If device is not indwelling, prime and make venipuncture.
8. Regulate rate of administration with flow control clamp.
WARNING: DO NOT USE FLEXIBLE CONTAINER IN SERIES CONNECTIONS.

HOW SUPPLIED
These solutions are supplied in single-dose flexible plastic containers as follows:

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<tr>
<th>NDC No.</th>
<th>Product Name</th>
<th>Container Size (mL)</th>
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<td>Ringer's Inj., USP</td>
<td>500</td>
</tr>
<tr>
<td>0409–7982–09</td>
<td>Ringer's Inj., USP</td>
<td>1000</td>
</tr>
<tr>
<td>0409–7933–09</td>
<td>Ringer's and 5% Dextrose Inj., USP</td>
<td>1000</td>
</tr>
</tbody>
</table>

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

Revised: August, 2009

Clinical Studies

n/a

PRINCIPAL DISPLAY PANEL - 1000 mL Bag Label - 0409-7982

1000 mL
NDC 0409-7982-09

RINGER'S INJECTION, USP

EACH 100 mL CONTAINS SODIUM CHLORIDE 860 mg; POTASSIUM CHLORIDE 30 mg; CALCIUM CHLORIDE, DIHYDRATE 33 mg IN WATER FOR INJECTION. MAY CONTAIN HCl OR NaOH FOR pH ADJUSTMENT. ELECTROLYTES PER 1000 mL: SODIUM 147 mEq; POTASSIUM 4 mEq; CALCIUM 4 mEq; CHLORIDE 155 mEq. 309 mOsmol/LITER (CALC.). pH 5.4 (5.0 TO 7.5). DO NOT ADMINISTER CALCIUM CONTAINING SOLUTIONS CONCURRENTLY WITH STORED BLOOD. ADDITIVES MAY BE INCOMPATIBLE. CONSULT WITH PHARMACIST, IF AVAILABLE. WHEN INTRODUCING ADDITIVES, USE ASEPTIC TECHNIQUE, MIX THOROUGHLY AND DO NOT STORE. SINGLE-DOSE CONTAINER. FOR INTRAVENOUS OR SUBCUTANEOUS USE. USUAL DOSAGE: SEE INSERT. STERILE, NONPYROGENIC. USE ONLY IF SOLUTION IS CLEAR AND CONTAINER IS UNDAMAGED. MUST NOT BE USED IN SERIES CONNECTIONS.

Rx ONLY
1000 mL

RINGER'S INJECTION, USP

EACH 100 mL CONTAINS SODIUM CHLORIDE 860 mg; POTASSIUM CHLORIDE 30 mg; CALCIUM CHLORIDE, DIHYDRATE 33 mg IN WATER FOR INJECTION. MAY CONTAIN HCl OR NaOH FOR pH ADJUSTMENT. ELECTROLYTES PER 1000 mL: SODIUM 147 mEq; POTASSIUM 4 mEq; CALCIUM 4 mEq; CHLORIDE 155 mEq.
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DO NOT ADMINISTER CALCIUM CONTAINING SOLUTIONS CONCURRENTLY WITH STORED BLOOD. ADDITIVES MAY BE INCOMPATIBLE.
CONSULT WITH PHARMACIST, IF AVAILABLE.
WHEN INTRODUCING ADDITIVES, USE ASEPTIC TECHNIQUE, MIX THOROUGHLY AND DO NOT STORE. SINGLE-DOSE CONTAINER. FOR INTRAVENOUS OR SUBCUTANEOUS USE.
USUAL DOSAGE: SEE INSERT. STERILE, NONPYROGENIC. USE ONLY IF SOLUTION IS CLEAR AND CONTAINER IS UNDAMAGED. MUST NOT BE USED IN SERIES CONNECTIONS.

Hospira
PRINCIPAL DISPLAY PANEL - 1000 mL Bag Overwrap - 0409-7982

TO OPEN TEAR AT NOTCH

2 HDPE

DO NOT REMOVE FROM OVERWRAP UNTIL READY FOR USE. AFTER REMOVING THE OVERWRAP, CHECK FOR MINUTE LEAKS BY SQUEEZING CONTAINER FIRMLY. IF LEAKS ARE FOUND, DISCARD SOLUTION AS STERILITY MAY BE IMPAIRED.

RECOMMENDED STORAGE: ROOM TEMPERATURE (25°C). AVOID EXCESSIVE HEAT. PROTECT FROM FREEZING. SEE INSERT.

98-4321-R14-3/98

PRINCIPAL DISPLAY PANEL - 1000 mL Bag Label - 0409-7933

1000 mL
NDC 0409-7933-09

RINGER'S AND 5% DEXTROSE INJECTION, USP

EACH 100 mL CONTAINS DEXTROSE, HYDROUS 5 g; SODIUM CHLORIDE 860 mg; POTASSIUM CHLORIDE 30 mg; CALCIUM CHLORIDE, DIHYDRATE 33 mg IN WATER FOR INJECTION. MAY CONTAIN HCl OR NaOH FOR pH ADJUSTMENT. ELECTROLYTES PER 1000 mL: (NOT INCLUDING pH ADJUSTMENT): SODIUM 147 mEq; POTASSIUM 4 mEq; CALCIUM 4 mEq; CHLORIDE 155 mEq. 561 mOsmol/LITER
(CALC). pH 4.3 (3.5 to 6.5) DO NOT ADMINISTER CALCIUM CONTAINING SOLUTIONS CONCURRENTLY WITH STORED BLOOD. ADDITIVES MAY BE INCOMPATIBLE. CONSULT WITH PHARMACIST, IF AVAILABLE. WHEN INTRODUCING ADDITIVES, USE ASEPTIC TECHNIQUE, MIX THOROUGHLY AND DO NOT STORE. SINGLE-DOSE CONTAINER. FOR INTRAVENOUS USE. USUAL DOSAGE: SEE INSERT. STERILE, NONPYROGENIC. USE ONLY IF SOLUTION IS CLEAR AND CONTAINER IS UNDAMAGED. MUST NOT BE USED IN SERIES CONNECTIONS.

Rx ONLY

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CONTAINS DEHP

_Hospira_

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PRINTED IN USA
HOSPIRA, INC., LAKE FOREST, IL 60045 USA

1000 mL  NDC 0409-7933-09

RINGER'S AND 5% DEXTROSE INJECTION, USP

EACH 100 mL CONTAINS DEXTROSE, HYDROUS 5 g; SODIUM CHLORIDE 860 mg; POTASSIUM CHLORIDE 30 mg; CALCIUM CHLORIDE, DIHYDRATE 33 mg IN WATER FOR INJECTION. MAY CONTAIN HCl OR NaOH FOR pH ADJUSTMENT. ELECTROLYTES PER 1000 mL: (NOT INCLUDING pH ADJUSTMENT): SODIUM 147 mEq; POTASSIUM 4 mEq; CALCIUM 4 mEq; CHLORIDE 155 mEq. 561 mOsmol/LITER (CALC). pH 4.3 (3.5 to 6.5) DO NOT ADMINISTER CALCIUM CONTAINING
RINGERS
sodium chloride, potassium chloride, and calcium chloride injection, solution

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<th>HUMAN PRESCRIPTION DRUG</th>
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<td>Route of Administration</td>
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| Item Code (Source) | NDC:0409-7982 |

### Active Ingredient/Active Moiety

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<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
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<td><strong>POTASSIUM CHLORIDE</strong> (UNII: 660YQ98I10) (POTASSIUM CATION - UNII:295O53K152, CHLORIDE ION - UNII:Q32ZN48698)</td>
<td>POTASSIUM CHLORIDE</td>
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<td><strong>CALCIUM CHLORIDE</strong> (UNII: M4I0D6VV5M) (CALCIUM CATION - UNII:2M83C4R6ZB, CHLORIDE ION - UNII:Q32ZN48698)</td>
<td>CALCIUM CHLORIDE</td>
<td>33 mg in 100 mL</td>
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<td><strong>SODIUM CHLORIDE</strong> (UNII: 451W47IQ8X) (SODIUM CATION - UNII:LYR4M90NH37, CHLORIDE ION - UNII:Q32ZN48698)</td>
<td>SODIUM CHLORIDE</td>
<td>860 mg in 100 mL</td>
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### Inactive Ingredients

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<tr>
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- RINERS
### HYDROCHLORIC ACID (UNII: QTT17582CB)

### SODIUM HYDROXIDE (UNII: 55X04QC32I)

### WATER (UNII: 059QF0KO0R)

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### Packaging

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<tr>
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<td>1 in 1 POUCH</td>
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### RINGERS AND DEXTROSE

*sodium chloride, potassium chloride, calcium chloride, and dextrose monohydrate injection, solution*

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<td>SODIUM CHLORIDE</td>
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<td>860 mg in 100 mL</td>
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<td>POTASSIUM CHLORIDE</td>
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<td>30 mg in 100 mL</td>
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<tr>
<td>DEXTROSE MONOHYDRATE</td>
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### Labeler - Hospira, Inc. (141588017)

### Establishment

#### Name

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Revised: 6/2017