

**CENTER FOR DRUG EVALUATION AND  
RESEARCH**

*APPLICATION NUMBER:*

**206317Orig1s000**

**LABELING**

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

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

**TRIFERIC® (ferric pyrophosphate citrate) solution, for addition to bicarbonate concentrate  
Initial U.S. Approval: 2015**

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

TRIFERIC is indicated for the replacement of iron to maintain hemoglobin in adult patients with hemodialysis-dependent chronic kidney disease (HDD-CKD). (1)

Limitation of Use

Triferic is not intended for use in patients receiving peritoneal dialysis. (1.1)

Triferic has not been studied in patients receiving home hemodialysis. (1.1)

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

- Add one Triferic ampule to 2.5 gallons of bicarbonate concentrate to achieve a final concentration of Triferic iron (III) in the final hemodialysate of 2 µM (110 mcg/L). (2.1)

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

Ampule: 27.2 mg of iron (III) per 5 mL (5.44 mg of iron (III) per mL). (3)

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

None

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

Hypersensitivity Reactions: Observe for signs and symptoms of hypersensitivity during and after hemodialysis and until clinically stable. (5.1)

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

The most common adverse reactions in controlled clinical studies include: headache, peripheral edema, asthenia, AV fistula thrombosis, urinary tract infection, AV fistula site hemorrhage, pyrexia, fatigue, procedural hypotension, muscle spasms, pain in extremity, back pain, and dyspnea.

**To report SUSPECTED ADVERSE REACTIONS, contact Rockwell Medical at 1-248-960-9009 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

**See 17 for PATIENT COUNSELING INFORMATION.**

**Revised: 01/2015**

**FULL PRESCRIBING INFORMATION: CONTENTS\***

**WARNING: [SUBJECT OF WARNING]**

**1 INDICATIONS AND USAGE**

1.1 Limitation of Use

**2 DOSAGE AND ADMINISTRATION**

2.1 Recommended Dose

**3 DOSAGE FORMS AND STRENGTHS**

**4 CONTRAINDICATIONS**

**5 WARNINGS AND PRECAUTIONS**

5.1 Hypersensitivity Reactions

5.2 Iron Laboratory Testing

**6 ADVERSE REACTIONS**

6.1 Clinical Trials Experience

**8 USE IN SPECIFIC POPULATIONS**

8.1 Pregnancy

8.2 Nursing Mothers

8.3 Pediatric Use

8.4 Geriatric Use

**10 OVERDOSAGE**

**11 DESCRIPTION**

**12 CLINICAL PHARMACOLOGY**

12.1 Mechanism of Action

12.2 Pharmacokinetics

**13 NONCLINICAL TOXICOLOGY**

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

**14 CLINICAL STUDIES**

**16 HOW SUPPLIED/STORAGE AND HANDLING**

16.1 How Supplied

16.2 Storage

**17 PATIENT COUNSELING INFORMATION**

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

## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

Triferic is indicated for the replacement of iron to maintain hemoglobin in adult patients with hemodialysis-dependent chronic kidney disease (HDD-CKD).

#### **1.1 Limitation of Use**

Triferic is not intended for use in patients receiving peritoneal dialysis.

Triferic has not been studied in patients receiving home hemodialysis.

### **2 DOSAGE AND ADMINISTRATION**

#### **2.1 Recommended Dose**

Inspect Triferic ampules for signs of precipitation prior to mixing with the bicarbonate concentrate. Triferic ampules appear slightly yellow-green in color.

Triferic should only be added to the bicarbonate concentrate and should NOT be added to acid concentrate mixtures.

Add Triferic to bicarbonate concentrate used for generation of hemodialysate. The final concentration of Triferic iron (III) in the final hemodialysate is 2 micromolar (110 mcg/L). Add one Triferic ampule to 2.5 gallons (9.46 L) of bicarbonate concentrate for preparation of the hemodialysate with 2 micromolar (110 mcg/L) iron (III) final concentration. Multiple ampules can be added to the master bicarbonate mix at each center at a ratio of one (1) ampule to each 2.5 gallons of bicarbonate concentrate.

Administer Triferic to patients at each dialysis procedure for as long as patients are receiving maintenance hemodialysis therapy for CKD.

The dosage of Triferic<sup>®</sup> is expressed as mg of iron (III). Each mL of Triferic contains 5.44 mg of iron as iron (III).

Hemodialysis solutions should be used within 24 hours of the preparation of the Triferic/bicarbonate concentrate mixture.

### **3 DOSAGE FORMS AND STRENGTHS**

Each Triferic ampule contains 27.2 mg iron (III) per 5 mL (5.44 mg of iron (III) per mL).

### **4 CONTRAINDICATIONS**

None

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Hypersensitivity Reactions

Serious hypersensitivity reactions, including anaphylactic-type reactions, some of which have been life-threatening and fatal, have been reported in patients receiving parenteral iron products. Patients may present with shock, clinically significant hypotension, loss of consciousness, and/or collapse. Monitor patients for signs and symptoms of hypersensitivity during and after hemodialysis until clinically stable. Personnel and therapies should be immediately available for the treatment of serious hypersensitivity reactions [see *Adverse Reactions (6)*].

Hypersensitivity reactions have been reported in 1 (0.3%) of 292 patients receiving Triferic in two randomized clinical trials.

### 5.2 Iron Laboratory Testing

Iron status should be determined on pre-dialysis blood samples. Post dialysis serum iron parameters may overestimate serum iron and transferrin saturation.

## 6 ADVERSE REACTIONS

The following adverse reactions are described below and elsewhere in the labeling:

- Hypersensitivity Reactions [see *Warnings and Precautions (5.1)*].

### 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug may not reflect the rates observed in practice.

In two randomized, placebo-controlled clinical trials a total of 292 patients were administered Triferic for periods of up to 1 year [see *Clinical Studies (14)*]. The mean total exposure in the randomized treatment period was 5 months. A total of 296 patients received placebo treatment for a similar time period. In the two studies, 64% were male and 54% were Caucasian. The median age of patients was 60 years (range, 20 to 89 years).

Adverse events occurring in 3% or greater of patients treated with Triferic in the randomized clinical trials are listed in Table 1.

Table 1: Adverse Reactions Reported in Two Clinical Trials in at Least 3% of Patients Receiving Triferic and at an Incidence at least 1% Greater than Placebo.

System organ class Preferred term	Triferic N=292 n (%)	Placebo N=296 n (%)
Number of patients with at least one adverse reaction	229 (78.4)	223 (75.3)
General Disorders and Administration Site Conditions		
Peripheral edema	20 (6.8)	11 (3.7)
Pyrexia	13 (4.5)	9 (3.0)
Asthenia	12 (4.1)	9 (3.0)
Fatigue	11 (3.8)	6 (2.0)
Infections and Infestations		

Urinary tract infection	13 (4.5)	4 (1.4)
Injury, Poisoning, and Procedural Complications		
Procedural hypotension	63 (21.6)	57 (19.3)
Arteriovenous fistula thrombosis	10 (3.4)	6 (2.0)
Arteriovenous fistula site hemorrhage	10 (3.4)	5 (1.7)
Musculoskeletal and Connective Tissue Disorders		
Muscle spasms	28 (9.6)	24 (8.1)
Pain in extremity	20 (6.8)	17 (5.7)
Back pain	13 (4.5)	10 (3.4)
Nervous System Disorders		
Headache	27 (9.2)	16 (5.4)
Respiratory, Thoracic and Mediastinal Disorders		
Dyspnea	17 (5.8)	13 (4.4)

### ***Adverse Reactions Leading to Treatment Discontinuation***

In clinical trials, adverse reactions leading to treatment discontinuation included headache, asthenia, dizziness, constipation, nausea, hypersensitivity reactions, intradialytic hypotension, pruritus, and pyrexia.

Adverse reactions reported in the treatment extension period were similar to those observed in the randomized clinical studies.

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

Pregnancy Category C

#### *Risk Summary*

There are no adequate and well-controlled studies of Triferic in pregnant women. In pregnant rats and rabbits, ferric pyrophosphate citrate caused developmental toxicity at maternally toxic dose levels that were higher than the maximum theoretical amount of iron transferred to patients from Triferic. The incidence of major malformations in human pregnancies has not been established for Triferic. However, all pregnancies regardless of exposure to any drug have a background rate of 2% to 4% for major malformations, and 15% to 20% for pregnancy loss. Use Triferic during pregnancy only if the potential benefit justifies the potential risk to the fetus.

#### *Animal Data*

In a fertility and early embryonic development study in female rats, the maternally toxic ferric pyrophosphate citrate dose of 40 mg/kg administered three times per week by intravenous (IV) infusion was not toxic to the developing embryo.

In embryo-fetal developmental toxicity studies, ferric pyrophosphate citrate was administered during the period of organogenesis as a one-hour IV infusion to pregnant rats and rabbits. No

maternal or developmental toxicity was observed at doses up to 30 mg/kg/day in rats and 20 mg/kg/day in rabbits. Maternally toxic doses affected embryo-fetal development, resulting in post-implantation loss due to early resorptions, abnormal placentae, decreased fetal body weight and fetal head and vertebral malformations at 90 mg/kg/day in rats and vertebral malformations at 40 mg/kg/day in rabbits.

A pre- and post-natal development study was conducted in pregnant rats with intravenous doses of ferric pyrophosphate citrate up to 90 mg/kg/day. The maternally toxic dose of 90 mg/kg/day resulted in reductions in the number of live offspring and lower offspring body weights. There were no adverse effects on survival of offspring at doses up to 30 mg/kg/day, or on behavior, sexual maturation or reproductive parameters of offspring at any dose level.

## 8.2 Nursing Mothers

It is not known if ferric pyrophosphate citrate is present in human milk. Because many drugs are excreted in human milk and because of the potential for adverse events in nursing infants, a decision should be made whether to discontinue nursing or to avoid Triferic, taking into account the importance of iron to the mother and the known benefits of nursing.

## 8.3 Pediatric Use

Safety and effectiveness have not been established in pediatric patients.

## 8.4 Geriatric Use

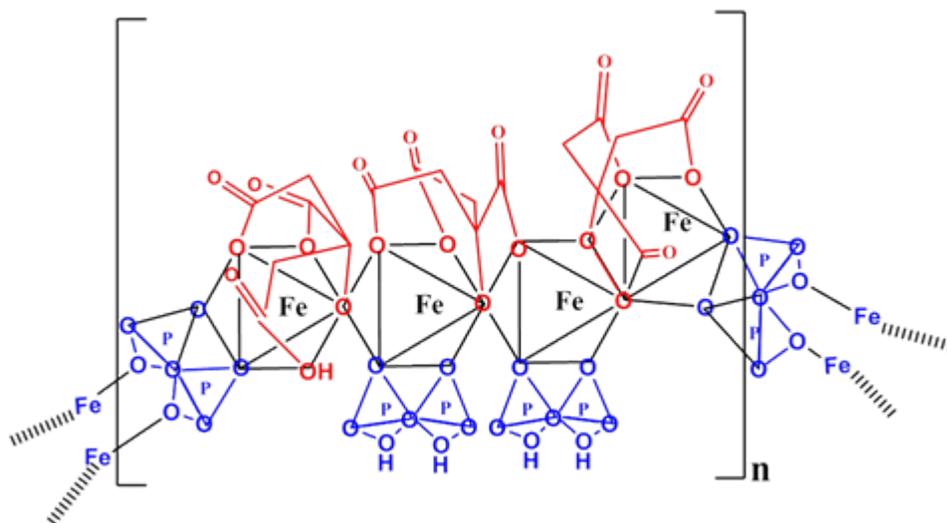
In controlled clinical trials, 99 (28.6%) patients  $\geq 65$  years of age were treated with Triferic<sup>®</sup>. No overall differences in safety and efficacy were observed between older and younger patients in these trials [see *Clinical Studies (14)*].

## 10 OVERDOSAGE

No data are available regarding overdose of Triferic in humans.

## 11 DESCRIPTION

Triferic (ferric pyrophosphate citrate) solution, an iron replacement product, is a mixed-ligand iron complex in which iron (III) is bound to pyrophosphate and citrate. It has a molecular formula of  $\text{Fe}_4(\text{C}_6\text{H}_4\text{O}_7)_3(\text{H}_2\text{P}_2\text{O}_7)_2(\text{P}_2\text{O}_7)$  and a relative molecular weight of approximately 1313 daltons. Ferric pyrophosphate citrate has the following structure:



Triferic (ferric pyrophosphate citrate) solution is a clear, slightly yellow-green color sterile solution containing 27.2 mg iron (III) per 5 mL (5.44 mg iron (III) per mL) filled in a 5 mL low density polyethylene (LDPE) ampule. Each Triferic ampule contains iron (7.5-9.0% w/w), citrate (15-22% w/w), pyrophosphate (15-22% w/w), phosphate (<2% w/w), sodium (18-25% w/w) and sulfate (20-35%). One ampule is added to 2.5 gallons of bicarbonate concentrate.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Triferic contains iron in the form of ferric pyrophosphate citrate and is added to hemodialysate solution to be administered to patients by transfer across the dialyzer membrane. Iron delivered into the circulation binds to transferrin for transport to erythroid precursor cells to be incorporated into hemoglobin.

### 12.2 Pharmacokinetics

The pharmacokinetics of serum iron was investigated in healthy volunteers administered 2.5, 5, 7.5 and 10 mg Triferic intravenously over 4 hours, or 15 mg and 20 mg Triferic intravenously over 12 hours. After correcting for the basal iron levels, the AUC and  $C_{max}$  of baseline-corrected serum iron increased in a dose proportional manner. The half-life of serum iron was approximately 1.48 hours, the mean clearance (CL) ranged from 0.406 to 0.556 L/hour, the mean apparent volume of distribution ( $V_z$ ) ranged from 0.765 to 0.859 L after a 4 hour intravenous administration of Triferic. Compared to the 4 hour infusion of Triferic, higher mean CL and  $V_z$  were observed following the administration of Triferic 15 mg (CL=0.672 L/hour and  $V_z$ =1.66 L) and Triferic 20 mg (CL=0.661 L/hour,  $V_z$ =2.08L) infused over 12 hours. In a study that assessed the impact of different dialysis conditions on iron delivery in patients administered Triferic via hemodialysis, a reduction of the blood and dialysate flow rates ( $Q_b/Q_d$  of 200/400 mL/min vs.  $\geq 350/\geq 600$  mL/min) resulted in a 33% decrease in the median cumulative iron delivered.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Studies examining the carcinogenic potential of ferric pyrophosphate citrate have not been conducted.

Ferric pyrophosphate citrate was clastogenic in the *in vitro* chromosomal aberration assay in CHO cells in the presence of metabolic activation. Ferric pyrophosphate citrate was not mutagenic in the *in vitro* bacterial reverse mutation (Ames) test or clastogenic in the *in vitro* chromosomal aberration assay in CHO cells in the absence of metabolic activation or in the *in vivo* mouse micronucleus assay.

In a combined male and female fertility study in rats, ferric pyrophosphate citrate was administered intravenously over one hour three times per week at doses of up to 40 mg/kg. No adverse effects on fertility or reproduction were noted.

## 14 CLINICAL STUDIES

The safety and efficacy of Triferic in patients with HDD-CKD was assessed in two randomized, single blind, placebo-controlled clinical trials. Patients with hemoglobin of 9 g/dL to 12 g/dL with TSAT >20% and serum ferritin concentrations > 200 mcg/L were enrolled. Patients were to remain in randomized treatment until pre-specified hemoglobin or ferritin criteria were met, indicating the need for a change in anemia management or if they completed 48 weeks. Triferic was added to bicarbonate concentrate with a final concentration of 110 mcg iron/L in the dialysate and was administered 3 or 4 times per week during hemodialysis. Most patients were receiving stable dose of erythropoiesis stimulating agents (ESAs) at baseline. After randomization, patients' ESA doses were not to be changed.

In Study 1, the mean age of patients was 58 years (range 23 to 89); 32% were female, 55% were Caucasian, 32% were African American, and 13% were other races.

In Study 2, the mean age of patients was 58 years (range 20 to 89); 41% were female, 54% were Caucasian, 40% were African American, and 6% were other races.

The primary endpoint of the studies was the mean change in hemoglobin from baseline to the end-of-treatment period (average hemoglobin of the last one-sixth (1/6th) of the time in the randomized treatment period). About 18% of patients completed the planned 48 week treatment duration.

Table 2 shows the mean changes in hemoglobin (Hgb) and iron parameters in each treatment group from baseline to the end-of-treatment period for the ITT population.

**Table 2: Changes from Baseline to End of Treatment in Hemoglobin, Ferritin, Reticulocyte Hgb (CHr), and Transferrin Saturation (TSAT).**

	Study 1	Study 2
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	Triferic n=152	Placebo n=153	Triferic n=147	Placebo n=147
Baseline Hemoglobin mean $\pm$ SD, g/dL	10.96 (0.592)	10.91 (0.632)	10.96 (0.605)	10.94 (0.622)
Hemoglobin Change from Baseline to End-of-Treatment Period mean $\pm$ SD g/dL	-0.03 (1.147) <sup>†</sup>	-0.38 (1.240)	-0.08 (1.152) <sup>†</sup>	-0.44 (1.157)
Baseline Ferritin Mean (SD), mcg/L	508.2 (193.55)	509.3 (209.06)	519.0 (201.56)	478.4 (200.59)
Ferritin, Change from Baseline to End-of-Treatment Mean (SD), mcg/L	-70.8 (132.41)	-141 .2 (187.74)	-65.3 (162.45)	-120.9 (268.19)
Baseline Reticulocyte Hemoglobin (CHr) Mean (SD), pg	32.37 (1.967)	32.53 (1.965)	32.56 (2.210)	32.57 (1.932)
CHr, Change from Baseline to End-of- Treatment Mean (SD), pg	-0.22 (1.191)	-0.90 (1.407)	-0.55 (1.441)	-0.85 (1.474)
Baseline TSAT Mean (SD), %	28.2 (8.23)	27.1 (7.76)	28.0 (8.15)	28.2 (8.52)
TSAT, Change from Baseline to End- of-Treatment) Mean (SD), %	-1.0 (9.07)	-2.9 (7.65)	-0.9 (7.54)	-3.6 (7.29)

<sup>†</sup> p <0.05 for primary efficacy endpoint

## 16 HOW SUPPLIED/STORAGE AND HANDLING

### 16.1 How Supplied

Triferic is available in single use ampules in the following package sizes:

NDC Code	Amount/Total Volume (per ampule)	Ampules/Pouch
NDC XXXXX-YYY-01	27.2 mg iron (III)/5mL (5.44 mg of iron (III) per mL)	5 Ampules/Pouch

### 16.2 Storage

Store protected from light in the aluminum pouch at controlled room temperature (20° to 25°C [68° to 77°F]; excursions permitted to 15°-30°C (59° to 86°F) [See USP Controlled Room Temperature].

## 17 PATIENT COUNSELING INFORMATION

Prior to the administration of Triferic<sup>®</sup>:

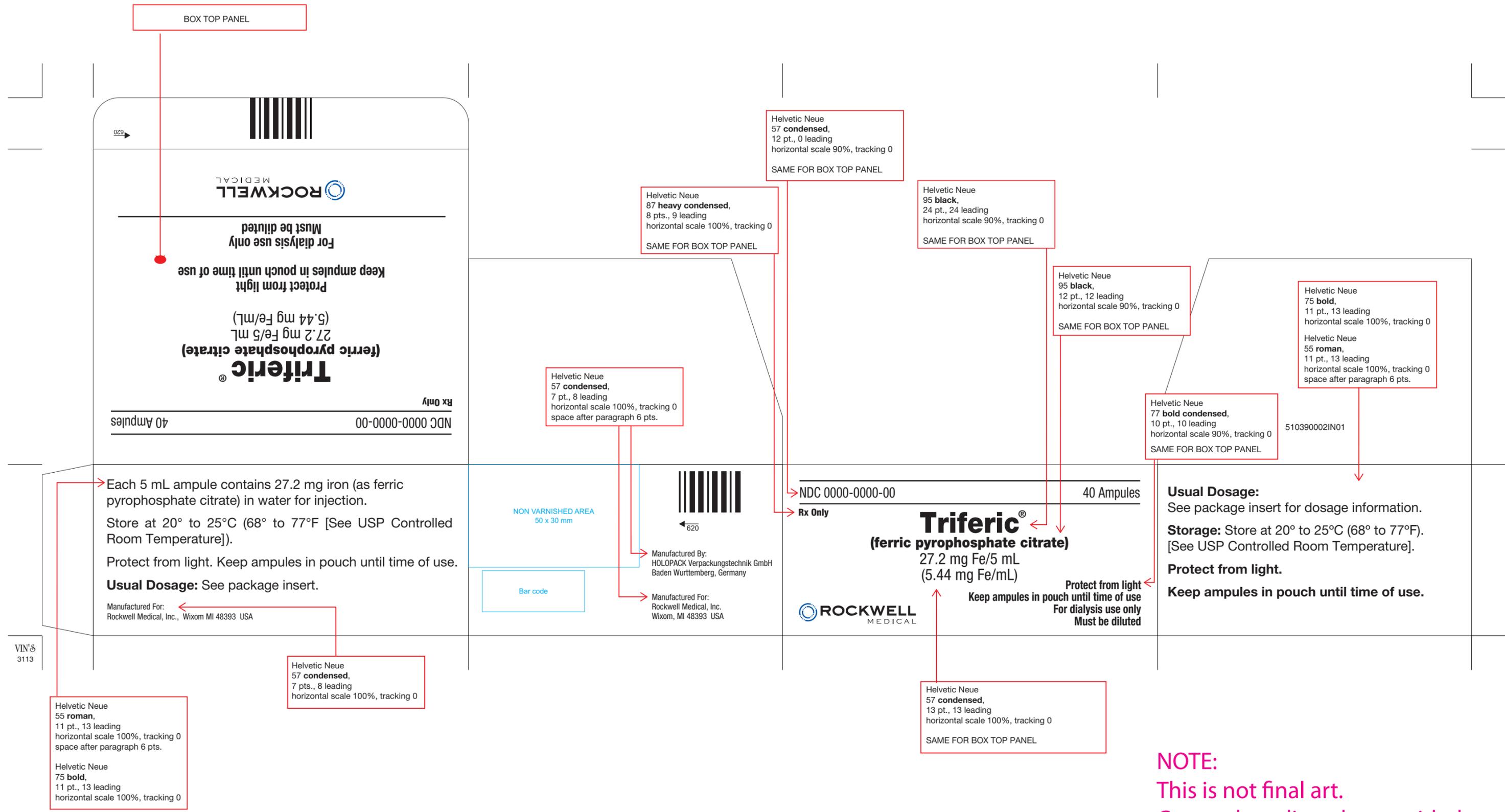
- Question patients regarding any prior history of reactions to parenteral iron products.
- Advise patients of the risks associated with Triferic<sup>®</sup>.
- Advise patients to report any signs and symptoms of hypersensitivity that may develop during and after the dialysis session, such as rash, itching, dizziness, lightheadedness, swelling and breathing problems [see *Warnings and Precautions (5)*].

**Manufactured for**  
Rockwell Medical, Inc.  
Wixom, MI 48393

 <p>029</p> <p><b>ROCKWELL</b> MEDICAL</p> <p><b>Triferic®</b> (ferric pyrophosphate citrate) 27.2 mg Fe/5 mL (5.44 mg Fe/mL)</p> <p>Protect from light Keep ampules in pouch until time of use</p> <p>For dialysis use only Must be diluted</p> <p>Rx Only</p> <p>NDC 0000-0000-00 40 Ampules</p>	<p>NON VARNISHED AREA 50 x 30 mm</p> <p>Bar code</p>	 <p>620</p> <p>Manufactured By: HOLOPACK Verpackungstechnik GmbH Baden Wurttemberg, Germany</p> <p>Manufactured For: Rockwell Medical, Inc. Wixom, MI 48393 USA</p>	<p>510390002IN01</p>
<p>Each 5 mL ampule contains 27.2 mg iron (as ferric pyrophosphate citrate) in water for injection.</p> <p>Store at 20° to 25°C (68° to 77°F [See USP Controlled Room Temperature]).</p> <p>Protect from light. Keep ampules in pouch until time of use.</p> <p><b>Usual Dosage:</b> See package insert.</p> <p>Manufactured For: Rockwell Medical, Inc., Wixom MI 48393 USA</p>	<p>Manufactured For: Rockwell Medical, Inc. Wixom, MI 48393 USA</p>	<p>NDC 0000-0000-00 40 Ampules</p> <p>Rx Only</p> <p><b>Triferic®</b> (ferric pyrophosphate citrate) 27.2 mg Fe/5 mL (5.44 mg Fe/mL)</p> <p>Protect from light Keep ampules in pouch until time of use For dialysis use only Must be diluted</p> <p><b>ROCKWELL</b> MEDICAL</p>	<p><b>Usual Dosage:</b> See package insert for dosage information.</p> <p><b>Storage:</b> Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].</p> <p><b>Protect from light.</b> <b>Keep ampules in pouch until time of use.</b></p>

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**Rx Only**

NDC 0000-0000-00

**Triferic<sup>®</sup>**  
**(ferric pyrophosphate citrate)**

27.2 mg Fe/5 mL  
(5.44 mg Fe/mL)

**For dialysis use only**  
**Must be diluted**

**Protect from light.**

**Keep ampules in pouch until time of use.**

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

Excursions permitted between 15° -30°C (between 59°F and 86°F).

**Do not Freeze.**

Each ampule is a single-use container.

Each 5 mL ampule contains 27.2 mg iron (as ferric pyrophosphate citrate) in water for injection.

One pouch contains five 5 mL ampules each.

See Package Insert for full prescribing information.

Manufactured by: HOLOPACK<sup>®</sup> Verpackungstechnik GmbH, Baden Wurttemberg, Germany

Manufactured for: Rockwell Medical Inc. Wixom, MI 48393 USA



Bar code

Lot#:

Exp:

**Reference ID: 3692306**

Pouch Label --- Proof #10 01-15-15

Helvetic Neue  
95 **black**, 14 pts., 14 leading  
horizontal scale 90%, tracking 0

Helvetic Neue  
55 **roman**, 8 pts., 12 leading  
horizontal scale 100%, tracking 0

Helvetic Neue  
87 **heavy condensed**, 8 pt.  
horizontal scale 100%, tracking 0

Helvetic Neue  
95 **black**, 7 pts., 7 leading  
horizontal scale 90%, tracking 0

Helvetic Neue  
57 **condensed**, 7 pts., 8 leading  
horizontal scale 100%, tracking 0

Helvetic Neue  
87 **heavy condensed**, 6.5 pts., 7 leading  
horizontal scale 100%, tracking 0  
space after paragraph 3 pts.

Helvetic Neue  
57 **condensed**, 6 pts., 7 leading  
horizontal scale 100%, tracking 0  
space after paragraph 2 pts.

Helvetic Neue  
55 **roman**, 8 pts.,  
horizontal scale 100%, tracking 0

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**ROCKWELL MEDICAL**

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**ROCKWELL MEDICAL**

Bar code                      Lot#:                      Exp:

Label size: 11cm x 7cm (4.3307" x 2.7559")

Art is actual size (100%)