
HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use DEXRAZOXANE FOR INJECTION safely and effectively. See full prescribing information for DEXRAZOXANE FOR INJECTION.
DEXRAZOXANE for injection, for intravenous use Initial U.S. Approval: 1995
INDICATIONS AND USAGE
Dexrazoxane for injection is a cytoprotective agent indicated for reducing the incidence and severity of cardiomyopathy associated with doxorubicin administration in women with metastatic breast cancer who have received a cumulative doxorubicin dose of 300 mg/m ² and who will continue to receive doxorubicin therapy to maintain tumor control. Do not use dexrazoxane for injection with doxorubicin initiation. (1)
DOSAGE AND ADMINISTRATION
 Reconstitute vial contents and dilute before use. (2.3)
 Administer dexrazoxane for injection by slow I.V. push or rapid drip intravenous infusion from a bag. (2.1, 2.3)
 The recommended dosage ratio of dexrazoxane for injection to doxorubicin is 10:1 (e.g., 500 mg/m² dexrazoxane for injection to 50 mg/m² doxorubicin). Do not administer doxorubicin before dexrazoxane for injection. (2.1)
 Reduce dose by 50% for patients with creatinine clearance < 40 mL/min. (2.2, 8.7)
DOSAGE FORMS AND STRENGTHS
250 mg or 500 mg single-dose vials as sterile, pyrogen-free lyophilizates. (3)
CONTRAINDICATIONS
Dexrazoxane for injection should not be used with non-anthracycline chemotherapy regimens. (4)
 Myelosuppression: Dexrazoxane may increase the myelosuppresive effects of chemotherapeutic agents. Perform hematological monitoring. (5.1)
 Embryo-Fetal Toxicity: Can cause fetal harm. Advise female patients of reproductive potential of the potential hazard to the fetus. (5.5, 8.1)
ADVERSE REACTIONS
In clinical studies, dexrazoxane was administered to patients also receiving chemotherapeutic agents for cancer. Pain on injection was observed more frequently in patients receiving dexrazoxane versus placebo. (6.1)
To report SUSPECTED ADVERSE REACTIONS, contact AuroMedics Pharma LLC at 1-866-850- 2876 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
USE IN SPECIFIC POPULATIONS
Nursing Mothers: Discontinue drug or nursing. (8.3)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 2/2022

FULL PRESCRIBING INFORMATION: CONTENTS* 1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dose

- 2.2 Dose Modifications
- 2.3 Preparation and Administration

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Myelosuppression
- 5.2 Concomitant Chemotherapy
- 5.3 Cardiac Toxicity
- 5.4 Secondary Malignancies
- 5.5 Embryo-Fetal Toxicity

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

7 DRUG INTERACTIONS

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.3 Nursing Mothers
- 8.4 Pediatric Use
- 8.5 Geriatric Use
- 8.6 Females of Reproductive Potential
- 8.7 Renal Impairment

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
- **14 CLINICAL STUDIES**
- **15 REFERENCES**

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

- 17.1 Myelosuppression
- 17.2 Embryo-Fetal Toxicity
- * Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Dexrazoxane for injection is indicated for reducing the incidence and severity of cardiomyopathy associated with doxorubicin administration in women with metastatic breast cancer who have received a cumulative doxorubicin dose of 300 mg/m² and who will continue to receive doxorubicin therapy to maintain tumor control. Do not use with the initiation of doxorubicin therapy [see Warnings and Precautions (5.2)].

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dose

Administer dexrazoxane for injection by slow I.V. push or rapid drip intravenous infusion from a bag.

The recommended dosage ratio of dexrazoxane for injection to doxorubicin is 10:1 (e.g., 500 mg/m² dexrazoxane for injection to 50 mg/m² doxorubicin). Do not administer doxorubicin before dexrazoxane for injection. Administer doxorubicin within 30 minutes after the completion of dexrazoxane for injection infusion.

2.2 Dose Modifications

Dosing in Patients with Renal Impairment: Reduce dexrazoxane for injection dosage in patients with moderate to severe renal impairment (creatinine clearance values less than 40 mL/min) by 50% (dexrazoxane for injection to doxorubicin ratio reduced to 5:1; such as 250 mg/m² dexrazoxane for injection to 50 mg/m² doxorubicin) [see Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)].

Dosing in Patients with Hepatic Impairment: Since a doxorubicin dose reduction is recommended in the presence of hyperbilirubinemia, reduce the dexrazoxane for injection dosage proportionately (maintaining the 10:1 ratio) in patients with hepatic impairment.

2.3 Preparation and Administration

Preparation and Handling of Infusion Solution: Dexrazoxane for injection must be reconstituted with 0.167 Molar (M/6) sodium lactate injection, USP, to give a concentration of 10 mg dexrazoxane for injection for each mL of sodium lactate. The reconstituted solution should be given by slow I.V. push or rapid drip intravenous infusion from a bag. After completing the infusion of dexrazoxane for injection, and prior to a total elapsed time of 30 minutes (from the beginning of the dexrazoxane for injection infusion), the intravenous injection of doxorubicin should be given.

Reconstituted dexrazoxane for injection, when transferred to an empty infusion bag, is stable for 6 hours from the time of reconstitution when stored at controlled room temperature, 20° to 25°C (68° to 77°F) or under refrigeration, 2° to 8°C (36° to 46°F). Discard unused solutions.

The reconstituted dexrazoxane for injection solution may be diluted with either 0.9% Sodium Chloride Injection, USP or 5% Dextrose Injection, USP to a concentration range of 1.3 to 5 mg/mL in intravenous infusion bags. The resultant solutions are stable for 6 hours when stored at controlled room temperature, 20° to 25°C (68° to 77°F) or under refrigeration, 2° to 8°C (36° to 46°F). Discard unused solutions.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Solutions containing a precipitate should be discarded.

Use caution when handling and preparing the reconstituted solution. The use of gloves is recommended. If dexrazoxane for injection powder or solutions contact the skin or mucosae, wash exposed area immediately and thoroughly with soap and water. Follow special handling and disposal procedures.¹

Administration: Do not mix dexrazoxane for injection with other drugs. The reconstituted solution should be given by slow I.V. push or rapid drip intravenous infusion from a bag. After completing the infusion of dexrazoxane for injection, and prior to a total elapsed time of 30 minutes (from the beginning of the dexrazoxane for injection infusion), the intravenous injection of doxorubicin should be given.

3 DOSAGE FORMS AND STRENGTHS

Dexrazoxane for injection is available in 250 mg or 500 mg single-dose vials as sterile, pyrogen-free lyophilizates.

4 CONTRAINDICATIONS

Do not use dexrazoxane for injection with non-anthracycline chemotherapy regimens.

5 WARNINGS AND PRECAUTIONS

5.1 Myelosuppression

Dexrazoxane may add to the myelosuppression caused by chemotherapeutic agents. Obtain a complete blood count prior to and during each course of therapy, and administer dexrazoxane and chemotherapy only when adequate hematologic parameters are met.

5.2 Concomitant Chemotherapy

Only use dexrazoxane in those patients who have received a cumulative doxorubicin dose of 300 mg/m² and are continuing with doxorubicin therapy. Do not use with chemotherapy initiation as dexrazoxane may interfere with the antitumor activity of the chemotherapy regimen. In a trial conducted in patients with metastatic breast cancer who were treated with fluorouracil, doxorubicin, and cyclophosphamide (FAC) with or without dexrazoxane starting with their first cycle of FAC therapy, patients who were randomized to receive dexrazoxane had a lower response rate (48% vs. 63%) and shorter time to progression than patients who were randomized to receive placebo.

5.3 Cardiac Toxicity

Treatment with dexrazoxane does not completely eliminate the risk of anthracyclineinduced cardiac toxicity. Monitor cardiac function before and periodically during therapy to assess left ventricular ejection fraction (LVEF). In general, if test results indicate deterioration in cardiac function associated with doxorubicin, the benefit of continued therapy should be carefully evaluated against the risk of producing irreversible cardiac damage.

5.4 Secondary Malignancies

Secondary malignancies such as acute myeloid leukemia (AML) and myelodysplastic syndrome (MDS) have been reported in studies of pediatric patients who have received dexrazoxane in combination with chemotherapy. Dexrazoxane for injection is not indicated for use in pediatric patients. Some adult patients who received dexrazoxane in combination with anti-cancer agents known to be carcinogenic have also developed secondary malignancies, including AML and MDS.

Razoxane is the racemic mixture, of which dexrazoxane is the S(+)-enantiomer. Secondary malignancies (primarily acute myeloid leukemia) have been reported in patients treated chronically with oral razoxane. In these patients, the total cumulative dose of razoxane ranged from 26 grams to 480 grams and the duration of treatment was from 42 to 319 weeks. One case of T-cell lymphoma, one case of B-cell lymphoma, and six to eight cases of cutaneous basal cell or squamous cell carcinoma have also been reported in patients treated with razoxane. Long-term administration of razoxane to rodents was associated with the development of malignancies [see Nonclinical *Toxicology (13.1)*].

5.5 Embryo-Fetal Toxicity

Dexrazoxane can cause fetal harm when administered to pregnant women. Dexrazoxane administration during the period of organogenesis resulted in maternal toxicity, embryotoxicity and teratogenicity in rats and rabbits at doses significantly lower than the clinically recommended dose [see Use in Specific Populations (8.1)]. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to a fetus.

Advise female patients of reproductive potential to avoid becoming pregnant and to use highly effective contraception during treatment [see Use in Specific Populations (8.6)].

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, the adverse reaction rates observed cannot be directly compared to rates in other trials and may not reflect the rates observed in clinical practice.

The adverse reaction profile described in this section was identified from randomized, placebo-controlled, double-blind studies in patients with metastatic breast cancer who received the combination of the FAC chemotherapy regimen with or without dexrazoxane. The dose of doxorubicin was 50 mg/m² in each of these trials. Treatment was administered every three weeks until disease progression or cardiac toxicity.

Patients in clinical trials who received FAC with dexrazoxane experienced more severe leukopenia, granulocytopenia, and thrombocytopenia than patients receiving FAC without dexrazoxane [see Warnings and Precautions (5.1)].

Table 1 below lists the incidence of adverse reactions for patients receiving FAC with either dexrazoxane or placebo in the breast cancer studies. Adverse experiences occurring during courses 1 through 6 are displayed for patients receiving dexrazoxane or placebo with FAC beginning with their first course of therapy (columns 1 and 3, respectively). Adverse experiences occurring at course 7 and beyond for patients who received placebo with FAC during the first six courses and who then received either

dexrazoxane or placebo with FAC are also displayed (columns 2 and 4, respectively).

The adverse reactions listed below in Table 1 demonstrate that the frequency of adverse reaction "Pain on Injection" has been greater for dexrazoxane arm, as compared to placebo.

Adverse	Percentage (_	Cancer Patients v	with Adverse
Adverse	FAC + Dex	razoxane	FAC + P	lacebo
Reaction	Courses 1 to 6 N = 413	Courses ≥ 7 N = 102	Courses 1 to 6 N = 458	Courses ≥ 7 N = 99
Alopecia	94	100	97	98
Nausea	77	51	84	60
Vomiting	59	42	72	49
Fatigue/Malaise	61	48	58	55
Anorexia	42	27	47	38
Stomatitis	34	26	41	28
Fever	34	22	29	18
Infection	23	19	18	21
Diarrhea	21	14	24	7
Pain on Injection	12	13	3	0
Sepsis	17	12	14	9
Neurotoxicity	17	10	13	5
Streaking/Erythema	5	4	4	2
Phlebitis	6	3	3	5
Esophagitis	6	3	7	4
Dysphagia	8	0	10	5
Hemorrhage	2	3	2	1
Extravasation	1	3	1	2
Urticaria	2	2	2	0
Recall Skin Reaction	1	1	2	0

Table 1:

7 DRUG INTERACTIONS

No drug interactions have been identified [see Clinical Pharmacology (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Dexrazoxane can cause fetal harm when administered to pregnant women. Dexrazoxane administration resulted in maternal toxicity, embryotoxicity and teratogenicity in rats and rabbits at doses significantly lower than the clinically recommended dose. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to a fetus [see Warnings and Precautions (5.5)].

Animal Data

Dexrazoxane resulted in maternal toxicity in rats at doses of $\geq 2 \text{ mg/kg}$ (1/40 the human dose on a mg/m² basis) and embryotoxicity and teratogenicity at 8 mg/kg (approximately 1/10 the human dose on a mg/m² basis) when given daily to pregnant rats during the period of organogenesis. Teratogenic effects in the rat included imperforate anus, microphthalmia, and anophthalmia. In offspring allowed to develop to maturity, fertility was impaired in the male and female rats treated in utero during organogenesis at 8 mg/kg. In rabbits, doses of $\geq 5 \text{ mg/kg}$ (approximately 1/10 the human dose on a mg/m² basis) daily during the period of organogenesis caused maternal toxicity and doses of 20 mg/kg (1/2 the human dose on a mg/m² basis) were embryotoxic and teratogenic. Teratogenic effects in the rabbit included several skeletal malformations such as short tail, rib and thoracic malformations, and soft tissue variations including subcutaneous, eye and cardiac hemorrhagic areas, as well as agenesis of the gallbladder and of the intermediate lobe of the lung.

8.3 Nursing Mothers

It is not known whether dexrazoxane or its metabolites are excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from dexrazoxane, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

The safety and effectiveness of dexrazoxane in pediatric patients have not been established [see Warnings and Precautions (5.4)].

8.5 Geriatric Use

Clinical studies of dexrazoxane did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently than 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 Females of Reproductive Potential

Contraception: Dexrazoxane can cause fetal harm when administered during pregnancy. Advise female patients of reproductive potential to use highly effective contraception during treatment [see Use in Specific Populations (8.1)].

8.7 Renal Impairment

Greater exposure to dexrazoxane may occur in patients with compromised renal function. Reduce the dexrazoxane dose by 50% in patients with creatinine clearance values < 40 mL/min [see Dosage and Administration (2.2) and Clinical Pharmacology

(12.3)].

10 OVERDOSAGE

There are no data on overdosage in the cardioprotective trials; the maximum dose administered during the cardioprotective trials was 1000 mg/m² every three weeks.

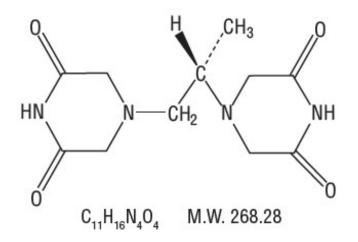
Disposition studies with dexrazoxane have not been conducted in cancer patients undergoing dialysis, but retention of a significant dose fraction (> 0.4) of the unchanged drug in the plasma pool, minimal tissue partitioning or binding, and availability of greater than 90% of the systemic drug levels in the unbound form suggest that it could be removed using conventional peritoneal or hemodialysis.

There is no known antidote for dexrazoxane. Instances of suspected overdose should be managed with good supportive care until resolution of myelosuppression and related conditions is complete. Management of overdose should include treatment of infections, fluid regulation, and maintenance of nutritional requirements.

11 DESCRIPTION

Dexrazoxane for injection, a cardioprotective agent for use in conjunction with doxorubicin, is a sterile, pyrogen-free lyophilizate intended for intravenous administration.

Chemically, dexrazoxane is (S)-4,4'-(1-methyl-1,2-ethanediyl)bis-2,6- piperazinedione. The structural formula is as follows:



Dexrazoxane, an intracellular chelating agent, is a derivative of EDTA. Dexrazoxane for injection is a white to off-white or pale pink lyophilized powder or cake that melts at 191° to 197°C. It is sparingly soluble in water and 0.1 N HCl, slightly soluble in ethanol and methanol, and practically insoluble in nonpolar organic solvents. The pKa is 2.1. Dexrazoxane has an octanol/water partition coefficient of 0.025 and degrades rapidly above a pH of 7.0.

Each 250 mg vial contains dexrazoxane hydrochloride equivalent to 250 mg dexrazoxane. Hydrochloric Acid, NF is added for pH adjustment. When reconstituted as

directed with the 25 mL vial of 0.167 Molar (M/6) Sodium Lactate Injection, USP diluent provided, each mL contains: 10 mg dexrazoxane. The pH of the resultant solution is 3.5 to 5.5.

Each 500 mg vial contains dexrazoxane hydrochloride equivalent to 500 mg dexrazoxane. Hydrochloric Acid, NF is added for pH adjustment. When reconstituted as directed with the 50 mL vial of 0.167 Molar (M/6) Sodium Lactate Injection, USP diluent provided, each mL contains: 10 mg dexrazoxane. The pH of the resultant solution is 3.5 to 5.5.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism by which dexrazoxane exerts its cytoprotective activity is not fully understood. Dexrazoxane is a cyclic derivative of EDTA that penetrates cell membranes. Results of laboratory studies suggest that dexrazoxane is converted intracellularly to a ring-opened chelating agent that interferes with iron-mediated free radical generation thought to be responsible, in part, for anthracycline-induced cardiomyopathy.

12.3 Pharmacokinetics

The pharmacokinetics of dexrazoxane have been studied in advanced cancer patients with normal renal and hepatic function. The pharmacokinetics of dexrazoxane can be adequately described by a two-compartment open model with first-order elimination. Dexrazoxane has been administered as a 15 minute infusion over a dose range of 60 to 900 mg/m² with 60 mg/m² of doxorubicin, and at a fixed dose of 500 mg/m² with 50 mg/m² doxorubicin. The disposition kinetics of dexrazoxane are dose-independent, as shown by linear relationship between the area under plasma concentration-time curves and administered doses ranging from 60 to 900 mg/m². The mean peak plasma concentration of dexrazoxane was 36.5 mcg/mL at 15 minute after intravenous administration of 500 mg/m² dose of dexrazoxane for injection over 15 to 30 minutes prior to the 50 mg/m² doxorubicin dose.

The important pharmacokinetic parameters of dexrazoxane are summarized in Table 2:

Table 2: Summary of Mean (%CV ^a) Dexrazoxane Pharmacokinetic Parameters
at a Dosage Ratio of 10:1 of Dexrazoxane: Doxorubicin

Dose Doxoruk (mg/m	bic in	Dose Dexrazoxane (mg/m ²)		Elimination Half-Life (h)			^b Volume of Distribution (L/m ²)
50	-	500	10	2.5 (16)	7.88 (18)	3.35 (36)	22.4 (22)
60		600	5	2.1 (29)	6.25 (31)		22.0 (55)

^a Coefficient of variation

^b Steady-state volume of distribution

Distribution: Following a rapid distributive phase (0.2 to 0.3 hours), dexrazoxane reaches post-distributive equilibrium within 2 to 4 hours. The estimated mean steady-state volume of distribution of dexrazoxane is 22.4 L/m² after 500 mg/m² of

dexrazoxane dose followed by 50 mg/m² of doxorubicin, suggesting distribution throughout total body water (25 L/m^2).

In vitro studies have shown that dexrazoxane is not bound to plasma proteins.

Metabolism: Qualitative metabolism studies with dexrazoxane have confirmed the presence of unchanged drug, a diacid-diamide cleavage product, and two monoacid-monoamide ring products in the urine of animals and man. The metabolite levels were not measured in the pharmacokinetic studies.

Excretion: Urinary excretion plays an important role in the elimination of dexrazoxane. Forty-two percent of a 500 mg/m² dose of dexrazoxane was excreted in the urine. Renal clearance averages 3.35 L/h/m^2 after the 500 mg/m² dexrazoxane for injection dose followed by 50 mg/m² of doxorubicin.

Specific Populations:

Pediatric: Pharmacokinetics following dexrazoxane administration have not been evaluated in pediatric patients.

Effect of Renal Impairment: The pharmacokinetics of dexrazoxane were assessed following a single 15 minute IV infusion of 150 mg/m² of dexrazoxane. Dexrazoxane clearance was reduced in subjects with renal dysfunction. Compared with controls, the mean AUC_{0-inf} value was 2-fold greater in subjects with moderate (CL_{CR} 30 to 50 mL/min) to severe (CL_{CR} < 30 mL/min) renal dysfunction. Modeling demonstrated that equivalent exposure (AUC-inf) could be achieved if dosing were reduced by 50% in subjects with creatinine clearance values < 40 mL/min compared with control subjects (CL_{CR} > 80 mL/min) [see Use in Specific Populations (8.7) and Dosage and Administration (2.2)].

Effect of Hepatic Impairment: The following dexrazoxane administration have not been evaluated in patients with hepatic impairment. The dexrazoxane dose is dependent upon the dose of doxorubicin [see Dosage and Administration (2.2)].

Drug Interactions: There was no significant change in the pharmacokinetics of doxorubicin (50 mg/m²) and its predominant metabolite, doxorubicinol, in the presence of dexrazoxane (500 mg/m²) in a crossover study in cancer patients.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No long-term carcinogenicity studies have been carried out with dexrazoxane in animals. Nevertheless, a study by the National Cancer Institute has reported that long-term dosing with razoxane (the racemic mixture of dexrazoxane, ICRF-187, and its enantiomer ICRF-186) is associated with the development of malignancies in rats and possibly in mice [see Warnings and Precautions (5.4)].

Dexrazoxane was not mutagenic in the bacterial reverse mutation (Ames) test, but was found to be clastogenic to human lymphocytes *in vitro* and to mouse bone marrow erythrocytes *in vivo* (micronucleus test).

Dexrazoxane has the potential to impair fertility in male patients based on effects in repeat-dose toxicology studies. Testicular atrophy was seen with dexrazoxane administration at doses as low as 30 mg/kg weekly for 6 weeks in rats (1/3 the human dose on a mg/m² basis) and as low as 20 mg/kg weekly for 13 weeks in dogs (approximately equal to the human dose on a mg/m² basis).

14 CLINICAL STUDIES

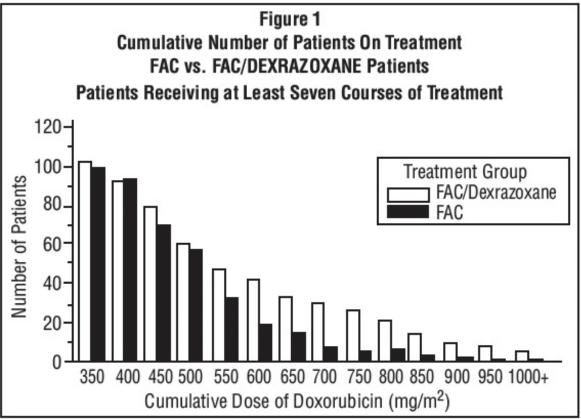
The ability of dexrazoxane to prevent/reduce the incidence and severity of doxorubicininduced cardiomyopathy was evaluated in three prospectively randomized placebocontrolled studies. In these studies, patients were treated with a doxorubicin-containing regimen and either dexrazoxane or placebo starting with the first course of chemotherapy. There was no restriction on the cumulative dose of doxorubicin. Cardiac function was assessed by measurement of the LVEF, utilizing resting multigated nuclear medicine (MUGA) scans, and by clinical evaluations. Patients receiving dexrazoxane had significantly smaller mean decreases from baseline in LVEF and lower incidences of congestive heart failure than the control group; however, in the largest study, patients with advanced breast cancer receiving FAC with dexrazoxane had a lower response rate (48% vs. 63%) and a shorter time to progression than patients who received FAC versus placebo.

In the clinical trials, patients who were initially randomized to receive placebo were allowed to receive dexrazoxane after a cumulative dose of doxorubicin above 300 mg/m². Retrospective historical analyses showed that the risk of experiencing a cardiac event (see Table 3 for definition) at a cumulative dose of doxorubicin above 300 mg/m² was greater in the patients who did not receive dexrazoxane beginning with their seventh course of FAC than in the patients who did receive dexrazoxane (HR=13.08; 95% CI: 3.72, 46.03; p < 0.001). Overall, 3% of patients treated with dexrazoxane developed CHF compared with 22% of patients not receiving dexrazoxane.

Table 3: Definition of Cardiac Events

- 1. Development of congestive heart failure, defined as having two or more of the following:
 - a. Cardiomegaly by X-ray
 - b. Basilar Rales
 - c. S3 Gallop
 - d. Paroxysmal nocturnal dyspnea and/or orthopnea and/ or significant dyspnea on exertion.
- 2. Decline from baseline in LVEF by \geq 10% and to below the lower limit of normal for the institution.
- 3. Decline in LVEF by \geq 20% from baseline value.
- 4. Decline in LVEF to \geq 5% below lower limit of normal for the institution.

Figure 1 shows the number of patients still on treatment at increasing cumulative doses.



15 REFERENCES

1. "OSHA Hazardous Drugs."

OSHA http://www.osha.gov/SLTC/hazardousdrugs/index.html.

16 HOW SUPPLIED/STORAGE AND HANDLING

Dexrazoxane for injection is available in the following strengths as sterile, pyrogen-free lyophilizates.

NDC 55150-434-01

250 mg single-dose vial with a green flip-top seal, packaged in single vial packs. (This package also contains a 25 mL vial of 0.167 Molar (M/6) sodium lactate injection, USP.)

NDC 55150-437-01

500 mg single-dose vial with a blue flip-top seal, packaged in single vial packs. (This package also contains a 50 mL vial of 0.167 Molar (M/6) sodium lactate injection, USP.)

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Reconstituted solutions of dexrazoxane for injection are stable for 6 hours at controlled room temperature or under refrigeration, 2° to 8°C (36° to 46°F).

Discard unused solutions.

Follow special handling and disposal procedures.

The vial stopper is not made with natural rubber latex.

17 PATIENT COUNSELING INFORMATION

17.1 Myelosuppression

Treatment with dexrazoxane is associated with leukopenia, neutropenia, and thrombocytopenia. Perform hematological monitoring [see Warnings and Precautions (5.1)].

17.2 Embryo-Fetal Toxicity

Counsel patients on pregnancy planning and prevention. Advise female patients of reproductive potential that dexrazoxane can cause fetal harm and to use highly effective contraception during treatment [see Warnings and Precautions (5.5) and Use in Specific Populations (8.1, 8.6)].

Distributed by: **AuroMedics Pharma LLC** 279 Princeton-Hightstown Rd. E. Windsor, NJ 08520

Manufactured by: **Gland Pharma Limited** D.P. Pally, Dundigal Post Hyderabad-500 043, India

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL 250 mg per vial - Container Label

Rx onlyNDC 55150-432-01Dexrazoxanefor Injection250 mg per vialFor Intravenous Use OnlySterile, pyrogen-free lyophilizateSingle-Dose Vial



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL 25 mL - Container Label Diluent

Rx onlyNDC 55150-433-010.167 Molar (M/6)Sodium LactateInjection, USP25 mLFor Drug Diluent Use OnlySingle-Dose Vial

(Rx only	NDC 55150-433-01	Sterile	8		fd. in India for:
	0.16	7 Molar (M/6)	Not for use in the treatment of lactic acidosis.	330		IroMedics Pharma LLC Windsor, NJ 08520
AUROMEDICS	Sodiu Inje	um Lactate ection, USP 25 mL	Each mL contains: 18.7 mg of sodium lactate. Sodium hydroxide, NF and/or hydrochloric acid, NF may be added for pH adjustment. Usual Dosage: See accompanying prescribing information.	0035515043		de No.: AP/DRUGS/103/97 SLAB-021142-00
		g Diluent Use Only ngle-Dose Vial	Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].	(10)	Expiry:	Un Varnish Area 20 x 12 mm

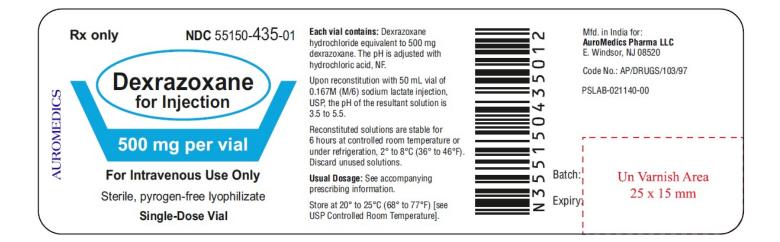
PACKAGE LABEL.PRINCIPAL DISPLAY PANEL 250 mg per vial - Container-Carton

Rx onlyNDC 55150-434-01Dexrazoxane
for Injection250 mg per vialand0.167M (M/6)Sodium Lactate Injection, USPFor Intravenous Use OnlySterile, pyrogen-free lyophilizate1 x 250 mg single-dose vial dexrazoxane1 x 25 mL single-dose vial sodium lactate injection, USP as diluentAUROMEDICS



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL 500 mg per vial - Container Label

Rx onlyNDC 55150-435-01Dexrazoxane
for Injection500 mg per vialFor Intravenous Use OnlySterile, pyrogen-free lyophilizateSingle-Dose Vial



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL 50 mL - Container Label Diluent

Rx onlyNDC 55150-436-010.167 Molar (M/6)Sodium LactateInjection, USP50 mLFor Drug Diluent Use OnlySingle-Dose Vial



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL 500 mg per vial - Container-Carton

Rx only	NDC 55150-437-01
Dexrazoxane	
for Injection	
500 mg per vial	and
0.167M (M/6)	
Sodium Lactate Injection, USP	
For Intravenous Use Only	
Sterile, pyrogen-free lyophilizate	
1 x 500 mg single-dose vial dexra:	zoxane
1 x 50 mL single-dose vial sodium	lactate injection, USP as diluent
AUROMEDICS	



	AZOX/ xane kit	ANE			
Produ	ct Infor	mation			
Produc	t Type	HUMAN PRESCRIPTION DRUG	Iten	n Code (Source)	NDC:55150-434
Packa	ging				
# Iter	n Code	Package Description		Marketing Start Date	Marketing End Date
1 NDC:5	5150-434-	01 in 1 PACKAGE; Type 0: Not a Combination Product		05/12/2016	
Quant	ity of Pa	arts			
Part #		Package Quantity		Total Product Q	uantity
Part 1	Part 1 1 VIAL, SINGLE-DOSE		25 mL		
Part 2 1 VIAL		25 mL			
Part	1 of 2				

		ROCHLORIDE				
dexrazoxane in	jection, powd	er, lyophilized, for solution				
Product Info						
ltem Code (Soເ		NDC:55150-432				
Route of Admir	nistration	INTRAVENOUS				
Active Ingred	lient/Active	Moiety				
	Ingr	edient Name		Basis o Strengt	Stre	ngth
DEXRAZOXANE H UNII:048L81261F)	YDROCHLORID	E (UNII: 5346058Q7S) (DEXRAZOXAN	E -	DEXRAZ OXANI	E 250 mg	
0111.040L012017)					11 25 11	
Inactive Ingr	edients					
		Ingredient Name			Strengt	h
HYDROCHLORIC	ACID (UNII: QTT	L7582CB)				
Packaging						
# Item Code	Pa	ackage Description	Mark	eting Start Date	Marketing Date	
1 NDC:55150- 432-01	25 mL in 1 VIAL, Combination Pro	SINGLE-DOSE; Type 0: Not a oduct				
Marketing	Informat	ion				
Marketing Category		tion Number or Monograph Citation		ting Start Date	Marketing Date	J End
ANDA	ANDA20075	2	05/12/202	16		
Part 2 of 2	2					
SODIUM L	ACTATE					
sodium lactate	injection, solu	ition				
Product Info	rmation					
Item Code (Sou	urce)	NDC:55150-433				
Route of Admir	nistration	INTRAVENOUS				

nactive Ingre				
	Ingredient Name			Strength
ODIUM LACTATE	(UNII: TU7HW0W0QT)			
Packaging				
# Item Code	Package Description		Marketing Start Date	Marketing End Date
NDC:55150-433- 01	25 mL in 1 VIAL; Type 0: Not a Combi Product	nation		
Marketing	Information			
Marketing Category	Application Number or Mo Citation	nograph	Marketing Start Date	Marketing End Date
ANDA	ANDA200752		05/12/2016	
Marketing	Information			
Marketing Category	Application Number or Mo Citation	nograph	Marketing Start Date	Marketing End Date
ANDA	ANDA200752		05/12/2016	
exrazoxane kit Product Infor	mation			
Product Type	HUMAN PRESCRIPTION DRUG	ltem	Code (Source)	NDC:55150-437
Packaging			Marketing Charl	Maylestin . F. I
# Item Code	Package Description		Marketing Start Date	Marketing End Date
NDC:55150-437- 01	01 in 1 PACKAGE; Type 0: Not a Com Product	pination (05/12/2016	
Quantity of P	arts			
Part #	Package Quantity		Total Product Q	uantity
	IGLE-DOSE	50 mL		
Part 2 1 VIAL		50 mL		
Part 1 of 2				

DEXRAZOXANE HYDROCHLORIDE

dexrazoxane inj	jection, powd	er, lyophilized, for solution			
Product Info	rmation				
ltem Code (Sou		NDC:55150-435			
Route of Admin	nistration	INTRAVENOUS			
Active Ingred	lient/Active	Moiety			
	Ingr	edient Name		Basis o Strengt	Strength
DEXRAZOXANE HYDROCHLORIDE (UNII: 5346058Q7S) (DEXRAZOXANE - UNII:048L81261F) DEXRAZOXANE - DEXRAZOXA					
Inactive Ingre	edients				
indecire ingre		Ingredient Name			Strength
HYDROCHLORIC	ACID (UNII: QTT)	•			
Packaging					
# Item Code	Pa	ackage Description	Mark	eting Start Date	Marketing End Date
	50 mL in 1 VIAL, Combination Pro	SINGLE-DOSE; Type 0: Not a oduct			
Marketing	Informat	ion			
Marketing Category	Applica	tion Number or Monograph Citation		ting Start Date	Marketing End Date
ANDA	ANDA20075	2	05/12/20	16	
Part 2 of 2	2				
SODIUM L	ACTATE				
sodium lactate	injection, solu	Ition			
Product Info	rmation				
ltem Code (Sou	ırce)	NDC:55150-436			
Route of Admin	nistration	INTRAVENOUS			
Inactive Ingre	edients				

so	DIUM LACTATE	(UNII: TU7HW0W0QT)		
Pa	ackaging			
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date
	NDC:55150-436- 01	50 mL in 1 VIAL; Type 0: Not a Combination Product		
Μ	larketing	Information		
	Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
AN	DA	ANDA200752	05/12/2016	
Μ	larketing	Information		
	Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
AN	DA	ANDA200752	05/12/2016	

Labeler - Eugia US LLC (968961354)

Establishment				
Name	Address	ID/FEI	Business Operations	
GLAND PHARMA LIMITED		918601238	ANALYSIS(55150-434, 55150-437) , MANUFACTURE(55150-434, 55150-437) , PACK(55150-434, 55150-437)	

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Eugia US LLC