

NEXTERONE- amiodarone hydrochloride injection, solution

Baxter Healthcare Corporation

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

NEXTERONE (amiodarone HCl) Premixed Injection for intravenous use
Initial U.S. Approval: 1985

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

NEXTERONE is an antiarrhythmic agent indicated for treatment and prophylaxis of ventricular fibrillation (VF) and hemodynamically unstable ventricular tachycardia (VT) in patients refractory to other therapy. (1)

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

- The recommended starting dosing regimen is: (2)
 - o Initial Load: 150 mg in 100 mL infused over 10 minutes
 - o Followed by: 1 mg/min for 6 hours
 - o Followed by: 0.5 mg/min thereafter
- For breakthrough episodes of VF or hemodynamically unstable VT, repeat the Initial Load (2)

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

Injection, 1.5 mg/mL (150 mg/100 mL) Premixed in Dextrose (3)

Injection, 1.8 mg/mL (360 mg/200 mL) Premixed in Dextrose (3)

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

NEXTERONE is contraindicated in patients with (4):

- Known hypersensitivity to any of the components of NEXTERONE, including iodine
- Cardiogenic shock
- Marked sinus bradycardia
- Second- or third-degree atrio-ventricular (AV) block unless a pacemaker is available.

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

- Hypotension: Slow the infusion; as needed, add vasopressor drugs, positive inotropic agents, and volume expansion. (5.2)
- Bradycardia and AV block: Slow the infusion or discontinue. (5.3)

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

- The most common adverse reactions (1-2%) leading to discontinuation of intravenous amiodarone therapy are hypotension, asystole/cardiac arrest/pulseless electrical activity, VT, and cardiogenic shock. (6)
- Other important adverse reactions are torsade de pointes, congestive heart failure, and liver function test abnormalities. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Baxter Healthcare at 1-866-888-2472 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

----- **DRUG INTERACTIONS** -----

- Amiodarone is a substrate for CYP3A and CYP2C8, so inhibitors and inducers affect amiodarone exposure (7)
- Amiodarone inhibits p-glycoprotein and CYP1A2, CYP2C9, CYP2D6, and CYP3A, increasing exposure to other drugs (7)

----- **USE IN SPECIFIC POPULATIONS** -----

- Pregnancy: Use NEXTERONE during pregnancy only if the potential benefit to the mother justifies the risk to the fetus (8.1).

- Nursing mothers: Advise mothers to discontinue breast feeding (8.2).

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

NEXTERONE is indicated for initiation of treatment and prophylaxis of frequently recurring ventricular fibrillation (VF) and hemodynamically unstable ventricular tachycardia (VT) in patients refractory to other therapy.

2 DOSAGE AND ADMINISTRATION

2.1 General Considerations

Inspect parenteral drug products for particulate matter and discoloration prior to administration, whenever solution and container permit, solution should be clear. Visually inspect the container. If the administration port protector is damaged, detached or not present, discard the container as the solution path sterility may be compromised. Check for minute leaks prior to use by squeezing the bag firmly. If leaks are detected, discard solution as sterility may be impaired. Protect from light until ready to use.

NEXTERONE Premixed Injection is available in GALAXY containers as a single-use, ready-to-use, iso-osmotic solution in dextrose for intravenous administration. No further dilution is required. Discard any unused portion after use.

Administer NEXTERONE, whenever possible, through a central venous catheter dedicated to that purpose. Use an in-line filter during administration.

2.2 Recommended Dosage

NEXTERONE response can vary. Monitor patient response and adjust dose accordingly. In controlled clinical trials, mean daily doses above 2100 mg were associated with an increased risk of hypotension.

Table 1: NEXTERONE Dosage Recommendations

Loading Infusion	First Rapid	150 mg over the FIRST 10 minutes (15 mg/min). Directly infuse NEXTERONE Premixed Injection (150 mg/100 mL; 1.5 mg/mL) at a rate of 10 mL/min.
	Followed by Slow	360 mg over the NEXT 6 hours (1 mg/min). Directly infuse NEXTERONE Premixed Injection (360 mg/200 mL; 1.8 mg/mL) at a rate of 0.556 mL/min. 540 mg over the REMAINING 18 hours (0.5 mg/min) Decrease the rate to 0.278 mL/min.
		After the first 24 hours, continue the

Maintenance Infusion	maintenance infusion 720 mg per 24 hour period (0.5 mg/min) Directly infuse NEXTERONE Premixed Injection (360 mg/200 mL; 1.8 mg/mL) at a rate of 0.278 mL/min).
Breakthrough VF or Hemodynamically Unstable VT	150 mg supplemental infusion over 10 minutes (15 mg/min). Directly infuse NEXTERONE Premixed Injection (150 mg/100mL; 1.5 mg/mL) at a rate of 10 mL/min.

Admixture Incompatibility

Amiodarone in D₅W Injection forms precipitates with the drugs shown in Table 2. If co-administration of the following drugs is necessary, use separate intravenous administration lines.

Table 2: Y-SITE INJECTION INCOMPATIBILITY

Drug	Vehicle	Amiodarone Concentration
Aminophylline	D5W; NS	4 mg/mL
Amoxicillin Sodium-Clavulanic Acid	unknown	12.5 mg/mL
Ampicillin Sodium-Sulbactam Sodium	NS	6 mg/mL
Argatroban	D ₅ W	1.8 mg/mL
Bivalirudin	D ₅ W	4 mg/mL
Cefamandole Nafate	D ₅ W	4 mg/mL
Cefazolin Sodium	D ₅ W	4 mg/mL
Ceftazidime	D ₅ W	6 mg/mL
Digoxin	D ₅ W	6 mg/mL
Furosemide (10 mg/mL)	D ₅ W	6 mg/mL
Mezlocillin Sodium	D ₅ W	4 mg/mL
Heparin Sodium	D ₅ W	--
Imipenem-Cilastin Sodium	D ₅ W	6 mg/mL
Magnesium Sulfate (500 mg/mL)	D ₅ W	6 mg/mL
Micafungin	NS	4 mg/mL
Piperacillin Sodium -Tazobactam Sodium	D ₅ W	6 mg/mL
Potassium Phosphates	D ₅ W	6 mg/mL
Sodium Bicarbonate	D ₅ W	3 mg/mL
Sodium Nitroprusside	D ₅ W	1.5, 6 and 15 mg/mL
Sodium Phosphates	D ₅ W	6 mg/mL

D5W = Dextrose 5% in Sterile Water, NS = Normal Saline

2.3 Transition From Intravenous Amiodarone to Oral Amiodarone

Table 3 provides suggested doses of oral amiodarone to be initiated after varying durations of NEXTERONE infusion.

Table 3: RECOMMENDATIONS FOR ORAL DOSAGE AFTER INTRAVENOUS INFUSION

Duration of Amiodarone Infusion*	Initial Daily Dose of Oral Amiodarone
Less than 1 week	800 to 1600 mg
1 to 3 weeks	600 to 800 mg
More than 3 weeks†	400 mg

* Assuming a 720 mg/day infusion (0.5 mg/min).

† Intravenous amiodarone is not intended for maintenance treatment.

3 DOSAGE FORMS AND STRENGTHS

Injection, 1.5 mg/mL (150 mg/100 mL) Premixed in Dextrose

Injection, 1.8 mg/mL (360 mg/200 mL) Premixed in Dextrose

4 CONTRAINDICATIONS

NEXTERONE is contraindicated in patients with:

- Known hypersensitivity to any of the components of NEXTERONE Premixed Injection, including iodine [see Warnings and Precautions (5.8)].
- Cardiogenic shock.
- Marked sinus bradycardia.
- Second- or third-degree atrioventricular (AV) block unless a functioning pacemaker is available.

5 WARNINGS AND PRECAUTIONS

5.1 Persistence of Adverse Effects

Because of the long half-life of amiodarone (9 to 36 days) and its metabolite desethylamiodarone (9 to 30 days), adverse reactions or interactions, as well as observed adverse effects, can persist following amiodarone withdrawal.

5.2 Hypotension

Hypotension, the most common adverse reaction seen with intravenous amiodarone seen most often in the first several hours of treatment and is likely related to the rate of infusion. In some cases, hypotension may be refractory and result in a fatal outcome. Hypotension necessitating alterations in intravenous amiodarone therapy was reported in 3% of patients, with permanent discontinuation required in less than 2% of patients.

Treat hypotension initially by slowing the infusion; additional standard therapy may be needed, including the following: vasopressor drugs, positive inotropic agents, and volume expansion. Monitor the initial rate of infusion closely and do not exceed the recommended rate [see Dosage and Administration (2)].

5.3 Bradycardia and Atrioventricular Block

NEXTERONE causes bradycardia and AV block which may require slowing the infusion rate or discontinuing NEXTERONE. In some patients, inserting a pacemaker is required. Have a temporary pacemaker available when treating a patient predisposed to bradycardia or AV block.

5.4 Hepatic Injury

Acute hepatocellular necrosis leading to hepatic coma, acute renal failure, and death has been associated with the administration of intravenous amiodarone. Intravenous infusions at much higher concentrations and rates of infusion than those recommended appear to increase this risk [see Dosage and Administration (2)].

Carefully monitor patients receiving NEXTERONE for evidence of progressive hepatic injury. Consider reducing the rate of administration or withdrawing NEXTERONE if hepatic injury occurs.

5.5 Proarrhythmia

NEXTERONE may cause a worsening of existing arrhythmias or precipitate a new arrhythmia, sometimes leading to fatal outcomes [see Adverse Reactions (6.2)]. Proarrhythmia, primarily torsade de pointes (TdP), has been associated with prolongation, by intravenous amiodarone. Although QTc prolongation occurred frequently in patients receiving intravenous amiodarone, TdP or new-onset VF occurred infrequently (less than 2%). Monitor patients for QTc prolongation during infusion with NEXTERONE. Reserve the combination of amiodarone with other antiarrhythmic therapies that prolong the QTc to patients with life-threatening ventricular arrhythmias who are incompletely responsive to a single agent.

Correct hypokalemia, hypomagnesemia or hypocalcemia whenever possible before initiating treatment with NEXTERONE, as these disorders can exaggerate the degree of QTc prolongation and increase the potential for TdP. Give special attention to electrolyte and acid-base balance in patients experiencing severe or prolonged diarrhea or in patients receiving concomitant diuretics and laxatives.

5.6 Pulmonary Injury

Early-onset Pulmonary Toxicity

There have been postmarketing reports of acute-onset (days to weeks) pulmonary injury in patients treated with intravenous amiodarone. Findings have included pulmonary infiltrates and masses on X-ray, pulmonary fibrosis, bronchospasm, wheezing, fever, dyspnea, cough, hemoptysis, and hypoxia. Two percent (2%) of patients were reported to have adult respiratory distress syndrome (ARDS) during clinical studies involving 48 hours of therapy.

Some cases have progressed to respiratory failure or death. Monitor for new respiratory symptoms and evaluate appropriately. Obtain a baseline chest X-ray and pulmonary function tests in patients who are expected to be receiving amiodarone chronically.

5.7 Loss of Vision

Cases of optic neuropathy and optic neuritis, usually resulting in visual impairment, have been reported in patients treated with oral amiodarone or intravenous amiodarone. In some cases, visual impairment has progressed to permanent blindness. Optic

neuropathy and neuritis may occur at any time following initiation of therapy. Perform an ophthalmic examination if symptoms of visual impairment appear, such as changes in visual acuity and decreases in peripheral vision. Re-evaluate the necessity of amiodarone therapy if optic neuropathy or neuritis is suspected.

5.8 Thyroid Abnormalities

Nexterone inhibits peripheral conversion of thyroxine (T₄) to triiodothyronine (T₃) and may cause increased T₃ levels, and increased levels of inactive reverse T₃ (rT₃) in clinically euthyroid patients. Monitor thyroid function prior to treatment and periodically thereafter, particularly in elderly patients, and in any patient with a history of thyroid nodules, goiter, or other thyroid dysfunction.

Hyperthyroidism may induce arrhythmia breakthrough. If any new signs of arrhythmia appear, the possibility of hyperthyroidism should be considered.

Antithyroid drugs, β -adrenergic blockers, temporary corticosteroid therapy may be necessary to treat the symptoms of hyperthyroidism. The action of antithyroid drugs may be delayed in amiodarone-induced thyrotoxicosis because of substantial quantities of preformed thyroid hormones stored in the gland. Radioactive iodine therapy is contraindicated because of the low radioiodine uptake associated with amiodarone-induced hyperthyroidism.

Nexterone-induced hyperthyroidism may be followed by a transient period of hypothyroidism. In some clinically hypothyroid amiodarone-treated patients, free thyroxine index values may be normal. Manage hypothyroidism by reducing the dose of or discontinuing amiodarone and thyroid hormone supplementation.

5.9 Neonatal Injury

Amiodarone can cause fetal harm when administered to a pregnant woman. Fetal exposure may increase the potential for adverse experiences including cardiac, thyroid, neurodevelopmental, neurological and growth effects in neonate. Inform the patient of the potential hazard to the fetus if NEXTERONE is administered during pregnancy or if the patient becomes pregnant while taking NEXTERONE [See Pregnancy (8.1)].

5.10 Hypersensitivity Reactions

Anaphylactic/anaphylactoid reactions have been reported with intravenous amiodarone including shock (sometimes fatal), cardiac arrest, and the following manifestations: hypotension, tachycardia, hypoxia, cyanosis, rash, Stevens-Johnson syndrome, flushing, hyperhidrosis and cold sweat.

5.11 Phlebitis

Infusion site phlebitis has occurred in patients receiving intravenous amiodarone. Intravenous amiodarone concentrations greater than 3 mg/mL have been associated with a high incidence of peripheral vein phlebitis.

6 ADVERSE REACTIONS

The following adverse reactions are described elsewhere in labeling:

- Hypotension [see Warnings and Precautions (5.2)]
- Hepatic injury [see Warnings and Precautions (5.4)]
- Proarrhythmia [see Warnings and Precautions (5.5)]
- Pulmonary injury [see Warnings and Precautions (5.6)]
- Thyroid injury [see Warnings and Precautions (5.8)]
- Hypersensitivity [see Warnings and Precautions (5.10)]

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 cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In a total of 1836 patients in controlled and uncontrolled clinical trials, 14% of patients received intravenous amiodarone for at least one week, 5% received it for at least 2 weeks, 2% received it for at least 3 weeks, and 1% received it for more than 3 weeks. The mean duration of therapy in these studies was 5.6 days; median exposure was 3.7 days.

The most important adverse reactions were hypotension, asystole/cardiac arrest/pulseless electrical activity (PEA), cardiogenic shock, congestive heart failure, bradycardia, liver function test abnormalities, VT, and AV block.

Overall, treatment was discontinued for about 9% of the patients because of adverse reactions. The most common adverse reactions leading to discontinuation of intravenous amiodarone therapy were hypotension (1.6%), asystole/cardiac arrest/PEA (1.2%), VT (1.1%), and cardiogenic shock (1%).

Other adverse reactions reported in less than 2% of patients receiving intravenous amiodarone in controlled and uncontrolled studies included the following: abnormal kidney function, diarrhea, shock, sinus bradycardia, Stevens-Johnson syndrome, VF, and vomiting.

6.2 Post-Marketing Experience

The following adverse reactions have been reported in the post-marketing experience during or in close temporal relationship to intravenous amiodarone administration. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Blood and Lymphatic System Disorders: pancytopenia, neutropenia, hemolytic anemia, aplastic anemia, thrombocytopenia, and granulocytosis.

Cardiac Disorders: sinus node dysfunction (sinus arrest, sinoatrial block), intraventricular conduction disorders including bundle branch block and infra-HIS block, bradycardia (sometimes fatal), ventricular extrasystoles, and antegrade conduction via an accessory pathway.

Endocrine Disorders: syndrome of inappropriate antidiuretic hormone secretion (SIADH).

Eye Disorders: visual field defect and blurred vision.

Gastrointestinal Disorders: pancreatitis.

General Disorders and Administration Site Conditions: infusion site reactions, including

thombosis, phlebitis, thrombophlebitis, cellulitis, pain, induration, edema, inflammation, urticaria, pruritus, erythema, pigment changes, hypoesthesia, skin sloughing, extravasation possibly leading to venous/infusion site necrosis, and granuloma.

Hepatobiliary Disorders: cholestasis, cirrhosis, jaundice, alkaline phosphatase and blood lactate dehydrogenase increase.

Musculoskeletal and Connective Tissue Disorders: myopathy, muscle weakness, rhabdomyolysis, muscle spasms, and back pain.

Neoplasms benign, malignant and unspecified (incl cysts and polyps) Disorders: thyroid nodules/thyroid cancer.

Nervous System Disorders: intracranial pressure increased, pseudotumor cerebri, tremor, dizziness and hypoesthesia.

Psychiatric Disorders: confusional state, hallucination, disorientation, and delirium.

Renal and Urinary Disorders: acute renal failure (sometimes fatal), renal impairment, renal insufficiency, and blood creatinine increased.

Reproductive Disorders and Breast Disorders: Epididymitis

Respiratory, Thoracic and Mediastinal Disorders: interstitial pneumonitis, bronchiolitis obliterans organizing pneumonia (possibly fatal), pulmonary alveolar hemorrhage, pulmonary phospholipidosis, pleural effusion, bronchospasm, dyspnea, cough, hemoptysis, wheezing, and hypoxia.

Skin and Subcutaneous Tissue Disorders: toxic epidermal necrolysis (sometimes fatal), Stevens-Johnson syndrome, exfoliative dermatitis, erythema multiforme, skin cancer, pruritus, angioedema, and urticaria.

Vascular Disorders: vasculitis and flushing.

7 DRUG INTERACTIONS

Drug interactions with amiodarone are described in Table 5 below.

Table 5: Amiodarone Drug Interactions

<u>Concomitant Drug Class/Name</u>	<u>Examples</u>	<u>Clinical Comment</u>
QT Prolonging Drugs	class I and III antiarrhythmics, lithium, certain phenothiazines, tricyclic antidepressants, certain fluoroquinolone and macrolide antibiotics,azole antifungals, halogenated inhalation anesthetic agents	Increased risk of Torsade de Pointes. Avoid concomitant use.
Negative Chronotropes	digoxin, beta blockers, verapamil, diltiazem, clonidine, ivabradine	Potentiates the electrophysiologic and hemodynamic effects of amiodarone, resulting in

		bradycardia, sinus arrest and AV block. Monitor heart rate.
CYP450 Inhibitors	Grapefruit juice, certain fluoroquinolone and macrolide antibiotics, azole antifungals, cimetidine	Increased exposure of amiodarone. Avoid concomitant use.
CYP450 Inducers	St. John's Wort	Reduced amiodarone serum levels
Cyclosporine		Increased plasma levels of cyclosporine have been reported resulting in elevated creatinine, despite reduction of cyclosporine dose. Monitor cyclosporine drug levels and renal function with concomitant use.
Cholestyramine		Reduced amiodarone serum levels
Antiarrhythmics	quinidine, procainamide, flecainide	Reserve concomitant use for patients who are unresponsive to a single agent. Antiarrhythmic metabolism inhibited by amiodarone. Initiate antiarrhythmic at a lower than usual dose and monitor patient carefully. Reduce dose levels of previously administered antiarrhythmic by 30 to 50% for several days after transitioning to oral amiodarone. Evaluate continued need for antiarrhythmic.
Digoxin		Increased digoxin concentration. Reduce digoxin by half or discontinue. If continued, monitor for evidence of toxicity.
HMG-CoA Reductase Inhibitors	simvastatin, lovastatin, atorvastatin	Increased plasma concentration of HMG-CoA reductase inhibitor. Limit the dose of lovastatin to 40 mg. Limit the coadministered dose of simvastatin to 20 mg. Lower starting dose of other CYP3A4 substrates may be required.
Warfarin		Potentiates anticoagulant response and can result in serious or fatal bleeding. Coadministration increases INR by 100% after 3 to 4 days.

		Reduce warfarin dose by one-third to one-half and monitor INR.
Phenytoin		Increased steady state levels of phenytoin. Monitor phenytoin levels.
Hepatitis C direct acting antiviral	Sofosbuvir	Cases of symptomatic bradyarrhythmia requiring pacemaker insertion have been reported in patients on oral maintenance amiodarone who initiated therapy with Sofosbuvir.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Available data from postmarketing reports and published case series indicate that amiodarone use in pregnant women may increase the risk for fetal adverse effects including neonatal hypo- and hyperthyroidism, neonatal bradycardia, neurodevelopmental abnormalities, preterm birth and fetal growth restriction. Amiodarone and its metabolite, desethylamiodarone (DEA), cross the placenta. Untreated underlying arrhythmias, including ventricular arrhythmias, during pregnancy pose a risk to the mother and fetus (*see Clinical Considerations*). In animal studies, administration of amiodarone to rabbits, rats, and mice during organogenesis resulted in embryo-fetal toxicity at doses less than the maximum recommended human maintenance dose (*see Data*). Advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2%-4% and 15%-20%, respectively.

Clinical Considerations

Disease-associated maternal and or embryo/fetal Risk

The incidence of ventricular tachycardia is increased and may be more symptomatic during pregnancy. Ventricular arrhythmias most often occur in pregnant women with underlying cardiomyopathy, congenital heart disease, valvular heart disease, or mitral valve prolapse. Most tachycardia episodes are initiated by ectopic beats and the occurrence of arrhythmia episodes may therefore, increase during pregnancy due to the increased propensity to ectopic activity. Breakthrough arrhythmias may also occur during pregnancy, as therapeutic treatment levels may be difficult to maintain due to the increased volume of distribution and increased drug metabolism inherent in the pregnant state.

Fetal/Neonatal adverse reactions

Amiodarone and its metabolite have been shown to cross the placenta. Adverse fetal effects associated with maternal amiodarone use during pregnancy may include neonatal bradycardia, QT prolongation, and periodic ventricular extrasystoles, neonatal

hypothyroidism (with or without goiter) detected antenatally or in the newborn and reported even after a few days of exposure, neonatal hyperthyroxinemia, neurodevelopmental abnormalities independent of thyroid function, including speech delay and difficulties with written language and arithmetic, delayed motor development, and ataxia, jerk nystagmus with synchronous head titubation, fetal growth restriction, and premature birth. Monitor the newborn for signs and symptoms of thyroid disorder and cardiac arrhythmias.

Labor and Delivery

Risk of arrhythmias may increase during labor and delivery.

Data

Animal Data

In pregnant rats and rabbits during the period of organogenesis, an amiodarone HCl dose of 25 mg/kg/day (approximately 0.4 and 0.9 times, respectively, the maximum recommended human maintenance dose*) had no adverse effects on the fetus. In the rabbit, 75 mg/kg/day (approximately 2.7 times the maximum recommended human maintenance dose*) caused abortions in greater than 90% of the animals. In the rat, doses of 50 mg/kg/day or more were associated with slight displacement of the testes and an increased incidence of incomplete ossification of some skull and digital bones; at 100 mg/kg/day or more, fetal body weights were reduced; at 200 mg/kg/day, there was an increased incidence of fetal resorption (approximately 0.8, 1.6 and 3.2 times the maximum recommended human maintenance dose*). Adverse effects on fetal growth and survival also were noted in one of two strains of mice at a dose of 5 mg/kg/day (approximately 0.04 times the maximum recommended human maintenance dose*).

*600 mg in a 60 kg patient (doses compared on a body surface area basis)

8.2 Lactation

Risk Summary

Amiodarone and one of its major metabolites, DEA, are present in breastmilk at between 3.5% and 45% of the maternal weight-adjusted dosage of amiodarone. There are cases of hypothyroidism and bradycardia in breastfed infants, although it is unclear if these effects are due to amiodarone exposure in breastmilk. Breastfeeding is not recommended during treatment with NEXTERONE [see Warnings and Precautions (5.6, 5.7)].

8.3 Females and Males of Reproductive Potential

Infertility

Based on animal fertility studies, NEXTERONE may reduce female and male fertility. It is not known if this effect is reversible. [see Nonclinical Toxicology (13.1)].

8.4 Pediatric Use

The safety and effectiveness of amiodarone in pediatric patients have not been established. In a pediatric trial of 61 patients, aged 30 days to 15 years, hypotension (36%), bradycardia (20%), and AV block (15%) were common dose-related adverse reactions and were severe or life-threatening in some cases. Injection site reactions were seen in 5 (25%) of the 20 patients receiving intravenous amiodarone through a peripheral vein irrespective of dose regimen.

8.5 Geriatric Use

Clinical studies of amiodarone 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. Carefully consider dose selection in an elderly patient. In general, start at the low end of the dosing range in the elderly to reflect the greater frequency of decreased hepatic, renal, or cardiac function, and concomitant disease or other drug therapy.

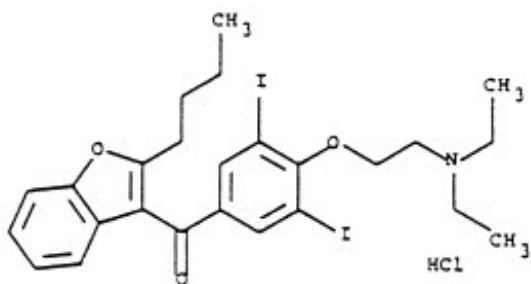
10 OVERDOSAGE

There have been cases, some fatal, of amiodarone overdose. Effects of an inadvertent overdose of intravenous amiodarone include hypotension, cardiogenic shock, bradycardia, AV block, and hepatotoxicity. Treat hypotension and cardiogenic shock by slowing the infusion rate or with standard therapy: vasopressor drugs, positive inotropic agents, and volume expansion. Bradycardia and AV block may require temporary pacing. Monitor hepatic enzyme concentrations closely. Neither amiodarone nor DEA is dialyzable.

11 DESCRIPTION

NEXTERONE contains amiodarone HCl ($C_{25}H_{29}I_2NO_3 \cdot HCl$), a class III antiarrhythmic drug. Amiodarone HCl is (2-butyl-3-benzo-furanyl)[4-[2-(diethylamino)ethoxy]-3,5-diiodophenyl]methanone hydrochloride.

Amiodarone HCl has the following structural formula:



Amiodarone HCl is a white to slightly yellow crystalline powder and is very slightly soluble in water. It has a molecular weight of 681.78 and contains 37.3% iodine by weight. NEXTERONE Premixed Injection is a sterile clear, colorless to slightly yellow solution visually free from particulates. NEXTERONE Premixed Injection is available as a ready-to-use, nonpyrogenic, iso-osmotic solution for intravenous administration in 100-mL GALAXY containers with 150 mg of amiodarone HCl, USP (1.5 mg/mL) in dextrose, and 200-mL GALAXY containers with 360 mg of amiodarone HCl, USP (1.8 mg/mL) in dextrose.

NEXTERONE Premixed Injection (150 mg/100 mL, 1.5 mg/mL):

Each mL contains 1.5 mg of amiodarone HCl, USP, 15 mg Betadex Sulfobutyl Ether Sodium, NF, 0.362 mg citric acid anhydrous, 0.183 mg sodium citrate dihydrate and 42.1 mg dextrose anhydrous in water for injection. Sodium hydroxide or hydrochloric acid may have been added to adjust pH.

NEXTERONE Premixed Injection (360 mg/200 mL, 1.8 mg/mL):

Each mL contains 1.8 mg of amiodarone HCl, USP, 18 mg Betadex Sulfobutyl Ether Sodium, NF, 0.362 mg citric acid anhydrous, 0.183 mg sodium citrate dihydrate and 41.4 mg dextrose anhydrous in water for injection. Sodium hydroxide or hydrochloric acid may have been added to adjust pH.

NEXTERONE does not contain polysorbate 80 or benzyl alcohol.

The GALAXY container is fabricated from a specially designed multilayered plastic. Solutions are in contact with the polyethylene layer of the container and can leach out certain chemical components of the plastic in very small amounts within the expiration period. The suitability and safety of the plastic have been confirmed in tests in animals according to the USP biological tests for plastic containers, as well as by tissue culture toxicity studies.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Amiodarone is considered a class III antiarrhythmic drug, but it possesses electrophysiologic characteristics of all four Vaughan Williams classes. Like class I drugs, amiodarone blocks sodium channels at rapid pacing frequencies, and like class II drugs, amiodarone exerts a noncompetitive antisympathetic action. One of its main effects, with prolonged administration, is to lengthen the cardiac action potential, a class III effect. The negative chronotropic effect of amiodarone in nodal tissues is similar to the effect of class IV drugs. In addition to blocking sodium channels, amiodarone blocks myocardial potassium channels, which contributes to slowing of conduction and prolongation of refractoriness. The antisympathetic action and the block of calcium and potassium channels are responsible for the negative dromotropic effects on the sinus node and for the slowing of conduction and prolongation of refractoriness in the atrioventricular (AV) node. Its vasodilatory action can decrease cardiac workload and consequently myocardial oxygen consumption.

Intravenous amiodarone administration prolongs intranodal conduction (Atrial-His, AH) and refractoriness of the atrioventricular node (ERP AVN) but has little or no effect on sinus cycle length (SCL), refractoriness of the right atrium and right ventricle (ERP RA and ERP RV), repolarization (QTc), intraventricular conduction (QRS), and infra-nodal conduction (His-ventricular, HV). A comparison of the electrophysiologic effects of intravenous amiodarone and oral amiodarone is shown in the table below.

Table 5: EFFECTS OF INTRAVENOUS AND ORAL AMIODARONE ON ELECTROPHYSIOLOGIC PARAMETERS

Formulation	SCL	QRS	QTc	AH	HV	ERP RA	ERP RV	ERP AVN
Intravenous	↔	↔	↔	↑	↔	↔	↔	↑

Oral	↑	↔	↑	↑	↔	↑	↑	↑
↔No Change								

At higher doses (>10 mg/kg) of intravenous amiodarone, prolongation of the ERP RV and modest prolongation of the QRS have been seen. These differences between oral and IV administration suggest that the initial acute effects of intravenous amiodarone may be predominately focused on the AV node, causing an intranodal conduction delay and increased nodal refractoriness due to slow channel blockade (class IV activity) and noncompetitive adrenergic antagonism (class II activity).

12.2 Pharmacodynamics

Intravenous amiodarone has been reported to produce negative inotropic and vasodilatory effects in animals and humans. In clinical studies of patients with refractory VF or hemodynamically unstable VT, treatment-emergent, drug-related hypotension occurred in 288 of 1836 patients (16%) treated with intravenous amiodarone. No correlations were seen between the baseline ejection fraction and the occurrence of clinically significant hypotension during infusion of intravenous amiodarone.

No data are available on the activity of DEA in humans, but in animals, it has significant electrophysiologic and antiarrhythmic effects generally similar to amiodarone itself. DEA's precise role and contribution to the antiarrhythmic activity of oral amiodarone are not certain. The development of maximal ventricular class III effects after oral amiodarone administration in humans correlates more closely with DEA accumulation over time than with amiodarone accumulation. On the other hand, after intravenous amiodarone administration, there is evidence of activity well before significant concentrations of DEA are attained [see Clinical Trials (14)].

There is no established relationship between drug concentration and therapeutic response for short-term intravenous use.

12.3 Pharmacokinetics

Absorption:

Amiodarone exhibits complex disposition characteristics after intravenous administration. Peak serum concentrations after single 5 mg/kg 15-minute intravenous infusions in healthy subjects range between 5 and 41 mg/L. Peak concentrations after 10-minute infusions of 150 mg intravenous amiodarone in patients with ventricular fibrillation (VF) or hemodynamically unstable ventricular tachycardia (VT) range between 7 and 26 mg/L. Because of rapid distribution, serum concentrations decline to 10% of peak values within 30 to 45 minutes after the end of the infusion. In clinical trials, after 48 hours of continued infusions (125, 500 or 1000 mg/day) plus supplemental (150 mg) infusions (for recurrent arrhythmias), amiodarone mean serum concentrations between 0.7 to 1.4 mg/L were observed (n=260).

Distribution:

From in vitro studies, the protein binding of amiodarone is >96%. Amiodarone and DEA cross the placenta and both appear in breast milk. Neither amiodarone nor DEA is dialyzable.

Elimination:

Amiodarone is eliminated primarily by hepatic metabolism and biliary excretion and there

is negligible excretion of amiodarone or DEA in urine. In studies in healthy subjects following single intravenous administration (5 mg/kg of amiodarone over 15 min), the plasma concentration vs. time profile could be characterized by linear sum of four exponential terms with terminal elimination half-lives ($t_{1/2}$) of 9 - 36 days for amiodarone and 9 - 30 days for DEA. The clearance of amiodarone and DEA ranged between 63 - 231 mL/h/kg and 140 - 400 mL/h/kg, respectively. In clinical studies of 2 to 7 days, clearance of amiodarone after intravenous administration in patients with VT and VF ranged between 220 and 440 mL/h/kg.

Metabolism:

N-desethylamiodarone (DEA) is the major active metabolite of amiodarone in humans. DEA serum concentrations above 0.05 mg/L are not usually seen until after several days of continuous infusion but with prolonged therapy reach approximately the same concentration as amiodarone. Amiodarone is metabolized to DEA by the cytochrome P450 (CYP450) enzyme group, specifically cytochrome P4503A (CYP3A) and CYP2C8. The CYP3A isoenzyme is present in both the liver and intestines.

Specific Populations:

Age: The pharmacokinetics of amiodarone and DEA are affected by age. Normal subjects over 65 years of age show lower clearances (about 100 mL/h/kg) than younger subjects (about 150 mL/h/kg) and an increase in $t_{1/2}$ from about 20 to 47 days.

Sex: Pharmacokinetics of amiodarone and DEA are similar in males and females.

Renal Impairment:

Renal disease does not influence the pharmacokinetics of amiodarone or DEA.

Hepatic Impairment:

After a single dose of intravenous amiodarone to cirrhotic patients, significantly lower C_{max} and average concentration values are seen for DEA, but mean amiodarone levels are unchanged.

Cardiac Disease:

In patients with severe left ventricular dysfunction, the pharmacokinetics of amiodarone are not significantly altered but the terminal elimination $t_{1/2}$ of DEA is prolonged.

Although no dosage adjustment for patients with renal, hepatic, or cardiac abnormalities has been defined during chronic treatment with oral amiodarone, close clinical monitoring is prudent for elderly patients and those with severe left ventricular dysfunction.

Drug Interactions:

Effect of other drugs on amiodarone:

Cimetidine inhibits CYP3A and can increase serum amiodarone levels.

Grapefruit juice given to healthy volunteers increased amiodarone AUC by 50% and C_{max} by 84%, resulting in increased plasma levels of amiodarone.

Cholestyramine reduces enterohepatic circulation of amiodarone thereby increasing its elimination. This results in reduced amiodarone serum levels and half-life.

Effect of amiodarone on other drugs:

Amiodarone taken concomitantly with *quinidine* increases quinidine serum concentration by 33% after two days. Amiodarone taken concomitantly with *procainamide* for less than seven days increases plasma concentrations of procainamide and n-acetyl

procainamide by 55% and 33%, respectively.

Loratadine, a non-sedating antihistaminic, is metabolized primarily by CYP3A and its metabolism can be inhibited by amiodarone.

Metabolism of *lidocaine* can be inhibited by amiodarone. Sinus bradycardia has been reported with oral amiodarone in combination with lidocaine (CYP3A substrate) given for local anesthesia. Seizure, associated with increased lidocaine concentrations, has been reported with concomitant administration of intravenous amiodarone.

Amiodarone can inhibit the metabolism of *macrolide/ketolide antibiotics* (except for azithromycin) and systemic azole antifungal drugs.

Amiodarone taken concomitantly with *digoxin* increases the serum digoxin concentration by 70% after one day.

Dextromethorphan is a substrate for both CYP2D6 and CYP3A. Amiodarone inhibits CYP2D6. Chronic (> 2 weeks) oral amiodarone administration impairs metabolism of dextromethorphan can lead to increased serum concentrations.

Cyclophosphamide is a prodrug, metabolized by CYP450 including CYP3A to an active metabolite. The metabolism of cyclophosphamide may be inhibited by amiodarone.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No carcinogenicity studies were conducted with intravenous administration of amiodarone. However, oral amiodarone caused a statistically significant, dose-related increase in the incidence of thyroid tumors (follicular adenoma and carcinoma) in rats. The incidence of thyroid tumors in rats was greater than the incidence in controls even at the lowest dose level tested, i.e., 5 mg/kg/day (much less, on a body surface area basis, than the maximum recommended human maintenance dose of 600 mg/day).

Mutagenicity studies conducted with amiodarone HCl (Ames, micronucleus, and lysogenic induction tests) were negative.

No fertility studies were conducted with intravenous administration of amiodarone. However, in a study in which amiodarone HCl was orally administered to male and female rats, beginning 9 weeks prior to mating, reduced fertility was observed at a dose level of 90 mg/kg/day (approximately 1.4 times the maximum recommended human maintenance dose of 600 mg/day).

14 CLINICAL STUDIES

Apart from studies in patients with VT or VF, described below, there are two other studies of amiodarone showing an antiarrhythmic effect before significant levels of DEA could have accumulated. A placebo-controlled study of intravenous amiodarone (300 mg over 2 hours followed by 1200 mg/day) in post-coronary artery bypass graft patients with supraventricular and 2- to 3-consecutive-beat ventricular arrhythmias showed a reduction in arrhythmias from 12 hours on. A baseline-controlled study using a similar IV regimen in patients with recurrent, refractory VT/VF also showed rapid onset of antiarrhythmic activity; amiodarone therapy reduced episodes of VT by 85%

compared to baseline.

The acute effectiveness of intravenous amiodarone in suppressing recurrent VF or hemodynamically unstable VT is supported by two randomized, parallel, dose-response studies of approximately 300 patients each. In these studies, patients with at least two episodes of VF or hemodynamically unstable VT in the preceding 24 hours were randomly assigned to receive doses of approximately 125 or 1000 mg over the first 24 hours, an 8-fold difference. In one study, a middle dose of approximately 500 mg was evaluated. The dose regimen consisted of an initial rapid loading infusion, followed by a slower 6-hour loading infusion, and then an 18-hour maintenance infusion. The maintenance infusion was continued up to hour 48. Additional 10-minute infusions of 150 mg intravenous amiodarone were given for "breakthrough" VT/VF more frequently to the 125 mg dose group, thereby considerably reducing the planned 8-fold differences in total dose to 1.8- and 2.6-fold, respectively, in the two studies.

The prospectively defined primary efficacy end point was the rate of VT/VF episodes per hour. For both studies, the median rate was 0.02 episodes per hour in patients receiving the high dose and 0.07 episodes per hour in patients receiving the low dose, or approximately 0.5 versus 1.7 episodes per day ($p=0.07$, 2-sided, in both studies). In one study, the time to first episode of VT/VF was significantly prolonged (approximately 10 hours in patients receiving the low dose and 14 hours in patients receiving the high dose). In both studies, significantly fewer supplemental infusions were given to patients in the high-dose group. At the end of double-blind therapy or after 48 hours, all patients were given open access to whatever treatment (including intravenous amiodarone) was deemed necessary. Mortality was not affected in these studies.

16 HOW SUPPLIED/STORAGE AND HANDLING

NEXTERONE (amiodarone HCl) Premixed Injection is supplied as a ready-to-use, sterile, nonpyrogenic, iso-osmotic solution in 100 mL and 200 mL single-dose GALAXY containers packaged in individual cartons as follows:

150 mg/100 mL	NDC 43066 - 150 - 10	2G3451
360 mg/200 mL	NDC 43066 - 360 - 20	2G3450

Do not add supplementary medication to NEXTERONE Premixed Injection.

Store at 20° - 25°C (68° - 77°F); excursions permitted to 15° - 30°C (59° - 86°F). See USP Controlled Room Temperature.

Protect from light and excessive heat. Protect from freezing.

Use carton to protect contents from light until used.

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Baxter Healthcare Corporation
Deerfield, IL 60015

07-19-07-569

PACKAGE LABELING - PRINCIPAL DISPLAY PANEL



NDC 43066-360-20

For Intravenous Use

Nexterone (amiodarone HCl) Premixed Injection

360 mg / 200 mL
(1.8 mg/mL)

GALAXY
200mL Single-Dose Container
Discard unused portion

Iso-osmotic solution in Dextrose
Code 2G3450
Sterile, Nonpyrogenic

Each mL contains: 1.8 mg amiodarone HCl, USP; 18 mg Betadex Sulfobutyl Ether Sodium, NF; 0.362 mg citric acid anhydrous, 0.183 mg sodium citrate dihydrate, and 41.4 mg dextrose anhydrous in water for injection. Sodium hydroxide or hydrochloric acid may have been added to adjust pH.

CAUTIONS: Check for minute leaks by squeezing bag firmly. If leaks are found, discard bag as sterility may be impaired. Do not use unless solution is clear.

Do not add supplemental medication. Must not be used in series connections.

Store at 20° to 25° C (68° to 77° F); excursions permitted to 15° to 30° C (59° to 86° F). See USP Controlled Room Temperature. Protect from freezing. **Avoid excessive heat.**

USE CARTON TO PROTECT CONTENTS FROM LIGHT UNTIL USE.

Rx Only

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Baxter Baxter Healthcare Corporation, Deerfield, IL 60015 USA
Made in the USA

07-34-00-2282

Container Label

NDC 43066-360-20
For Intravenous Use

Nexterone
(amiodarone HCl)
Premixed Injection

360 mg/200 mL
(1.8 mg/mL)

GALAXY
200mL Single-Dose Container

Discard unused portion

Iso-osmotic solution in Dextrose

Code 2G3450

Sterile, Nonpyrogenic

Each mL contains: 1.8 mg amiodarone HCl, USP; 18 mg Betadex Sulfobutyl Ether Sodium, NF;

0.362 mg citric acid anhydrous, 0.183 mg sodium citrate dihydrate, and 41.4 mg dextrose anhydrous in water for injection. Sodium hydroxide or hydrochloric acid may have been added to adjust pH.

CAUTIONS: Check for minute leaks by squeezing bag firmly. If leaks are found, discard bag as sterility may be impaired. Do not use unless solution is clear.

Do not add supplemental medication. Must not be used in series connections.

Store at 20° to 25° C (68° to 77° F); excursions permitted to 15° to 30° C (59° to 86° F).

See USP Controlled Room Temperature. Protect from freezing. **Avoid excessive heat.**

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Made in the USA

07-34-00-2282



Carton Label

For Intravenous Use
Nexterone
(amiodarone HCl)
Premixed Injection

360 mg/200 mL
(1.8 mg/mL)

UNVARNISHED AREA FOR ON-LINE
 PRINTING OF LOT & EXP

FPO UPC-A Barcode

343066360207

**For Intravenous Use
Nexterone
(amiodarone HCl)
Premixed Injection**

**360 mg/200 mL
(1.8 mg/mL)**

Iso-osmotic solution in Dextrose

Sterile, Nonpyrogenic

Each mL contains: 1.8 mg amiodarone HCl, USP; 18 mg Betadex Sulfobutyl Ether Sodium, NF; 0.362 mg citric acid anhydrous, 0.183 mg sodium citrate dihydrate, and 41.4 mg dextrose anhydrous in water for injection. Sodium hydroxide or hydrochloric acid may have been added to adjust pH.

Does not contain polysorbate 80 or benzyl alcohol.

DOSAGE: See package insert for complete information on dosage and administration.

STORAGE: Store at 20° to 25° C (68° to 77° F); excursions permitted to 15° to 30° C (59° to 86° F). See USP Controlled Room Temperature.

Protect from freezing. **Avoid excessive heat.**

USE CARTON TO PROTECT CONTENTS FROM LIGHT UNTIL USE.

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Baxter Healthcare Corporation
Deerfield, IL 60015 USA

07-01-00-0371

**For Intravenous Use
Nexterone
(amiodarone HCl)
Premixed Injection**

**360 mg/200 mL
(1.8 mg/mL)**

NDC 43066-360-20
Code 2G3450

Rx Only

NDC 43066-360-20
Code 2G3450

**USE CARTON TO PROTECT
CONTENTS FROM LIGHT UNTIL USE**

1 GALAXY Single-Dose Container
Discard unused portion

Baxter Logo

Baxter Healthcare Corporation, Deerfield, IL 60015 USA

NDC 43066-150-10

For Intravenous Use

Nexterone

(amiodarone HCl)
Premixed Injection

150 mg / 100 mL
(1.5 mg/mL)

GALAXY
100mL Single-Dose Container
Discard unused portion

Iso-osmotic solution in Dextrose
Code 2G3451
Sterile, Nonpyrogenic

Each mL contains: 1.5 mg amiodarone HCl, USP; 15 mg Betadex Sulfobutyl Ether Sodium, NF; 0.362 mg citric acid anhydrous, 0.183 mg sodium citrate dihydrate, and 42.1 mg dextrose anhydrous in water for injection. Sodium hydroxide or hydrochloric acid may have been added to adjust pH.

CAUTIONS: Check for minute leaks by squeezing bag firmly. If leaks are found, discard bag as sterility may be impaired. Do not use unless solution is clear.

Do not add supplemental medication. Must not be used in series connections.

Store at 20° to 25° C (68° to 77° F); excursions permitted to 15° to 30° C (59° to 86° F).

See USP Controlled Room Temperature. Protect from freezing. **Avoid excessive heat.**

USE CARTON TO PROTECT CONTENTS FROM LIGHT UNTIL USE.

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07-34-00-2283

Container Label

NDC 43066-150-10
For Intravenous Use

Nexterone

**(amiodarone HCl)
Premixed Injection**

**150 mg/100 mL
(1.5 mg/mL)**

**GALAXY
100mL Single-Dose Container
Discard unused portion**

**Iso-osmotic solution in Dextrose
Code 2G3451
Sterile, Nonpyrogenic**

Each mL contains: 1.5 mg amiodarone HCl, USP; 15 mg Betadex Sulfobutyl Ether Sodium, NF;

0.362 mg citric acid anhydrous, 0.183 mg sodium citrate dihydrate, and 42.1 mg dextrose

anhydrous in water for injection. Sodium hydroxide or hydrochloric acid may have been added to adjust pH.

CAUTIONS: Check for minute leaks by squeezing bag firmly. If leaks are found, discard bag as sterility may be impaired. Do not use unless solution is clear.

Do not add supplemental medication. Must not be used in series connections.

Store at 20° to 25° C (68° to 77° F); excursions permitted to 15° to 30° C (59° to 86° F).

See USP Controlled Room Temperature. Protect from freezing. **Avoid excessive heat.**

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07-34-00-2283



Carton Label

For Intravenous Use
Nexterone
(amiodarone HCl)
Premixed Injection

150 mg/100 mL
(1.5 mg/mL)

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 PRINTING OF LOT & EXP

FPO UPC-A Barcode
 343066150105

For Intravenous Use
Nexterone

**(amiodarone HCl)
Premixed Injection**

**150 mg/100 mL
(1.5 mg/mL)**

Iso-osmotic solution in Dextrose

Sterile, Nonpyrogenic

Each mL contains: 1.5 mg amiodarone HCl, USP; 15 mg Betadex Sulfobutyl Ether Sodium, NF; 0.362 mg citric acid anhydrous, 0.183 mg sodium citrate dihydrate, and 42.1 mg dextrose anhydrous in water for injection. Sodium hydroxide or hydrochloric acid may have been added to adjust pH.

Does not contain polysorbate 80 or benzyl alcohol.

DOSAGE: See package insert for complete information on dosage and administration.

STORAGE: Store at 20° to 25° C (68° to 77° F); excursions permitted to 15° to 30° C (59° to 86° F). See USP Controlled Room Temperature.

Protect from freezing. **Avoid excessive heat.**

USE CARTON TO PROTECT CONTENTS FROM LIGHT UNTIL USE.

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Deerfield, IL 60015 USA

07-01-00-0372

**For Intravenous Use
Nexterone
(amiodarone HCl)
Premixed Injection**

**150 mg/100 mL
(1.5 mg/mL)**

**NDC 43066-150-10
Code 2G3451**

Rx Only

**USE CARTON TO PROTECT
CONTENTS FROM LIGHT UNTIL USE**

1 GALAXY Single-Dose Container
Discard unused portion

Baxter Logo
Baxter Healthcare Corporation, Deerfield, IL 60015 USA

**For Intravenous Use
Nexterone
(amiodarone HCl)
Premixed Injection**

150 mg/100 mL
(1.5 mg/mL)

NEXTERONE

amiodarone hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:43066-150
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
AMIODARONE HYDROCHLORIDE (UNII: 976728SY6Z) (AMIODARONE - UNII:N3RQ532IUT)	AMIODARONE HYDROCHLORIDE	1.5 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
BETADEX SULFOBUTYL ETHER SODIUM (UNII: 2PP9364507)	15 mg in 1 mL
ANHYDROUS CITRIC ACID (UNII: XF417D3PSL)	0.362 mg in 1 mL
TRISODIUM CITRATE DIHYDRATE (UNII: B22547B95K)	0.183 mg in 1 mL
ANHYDROUS DEXTROSE (UNII: 5SL0G7R0OK)	42.1 mg in 1 mL
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:43066-150-10	100 mL in 1 BAG; Type 0: Not a Combination Product	11/16/2010	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA022325	11/16/2010	

NEXTERONE

amiodarone hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:43066-360
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Route of Administration INTRAVENOUS

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
AMIODARONE HYDROCHLORIDE (UNII: 976728SY6Z) (AMIODARONE - UNII:N3RQ532IUT)	AMIODARONE HYDROCHLORIDE	1.8 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
BETADEX SULFOBUTYL ETHER SODIUM (UNII: 2PP9364507)	18 mg in 1 mL
ANHYDROUS CITRIC ACID (UNII: XF417D3PSL)	0.362 mg in 1 mL
TRISODIUM CITRATE DIHYDRATE (UNII: B22547B95K)	0.183 mg in 1 mL
ANHYDROUS DEXTROSE (UNII: 5SLOG7R0OK)	41.4 mg in 1 mL
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
WATER (UNII: 059QF0K00R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:43066-360-20	200 mL in 1 BAG; Type 0: Not a Combination Product	11/16/2010	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA022325	11/16/2010	

Labeler - Baxter Healthcare Corporation (005083209)

Registrant - Baxter Healthcare Corporation (005083209)

Establishment

Name	Address	ID/FEI	Business Operations
Baxter Healthcare Corporation		194684502	ANALYSIS(43066-150, 43066-360) , MANUFACTURE(43066-150, 43066-360) , LABEL(43066-150, 43066-360) , PACK(43066-150, 43066-360) , STERILIZE(43066-150, 43066-360)

Revised: 4/2024

Baxter Healthcare Corporation