

**PACERONE- amiodarone hydrochloride tablet**  
**Upsher-Smith Laboratories, LLC**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

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

**PACERONE® (amiodarone hydrochloride) tablets, for oral use**  
**Initial U.S. Approval: 1985**

**WARNING: PULMONARY, HEPATIC, and CARDIAC TOXICITY**

*See full prescribing information for complete boxed warning.*

- Reserve Pacerone for patients with the indicated life-threatening arrhythmias because its use is accompanied by substantial toxicity, some also life-threatening. Utilize alternative agents first. (1)
- Pacerone's life-threatening toxicities include pulmonary (5.2), hepatic (5.3), and proarrhythmic (5.4).
- Initiate under hospital or specialist supervision. (5)

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**INDICATIONS AND USAGE**  
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Pacerone is an antiarrhythmic indicated for:

- Recurrent ventricular fibrillation. (1)
- Recurrent hemodynamically unstable ventricular tachycardia. (1)

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**DOSAGE AND ADMINISTRATION**  
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Initiate treatment with a loading dose of 800 to 1600 mg/day until initial therapeutic response occurs (usually 1 to 3 weeks). Once adequate arrhythmia control is achieved, or if side effects become prominent, reduce Pacerone tablets dose to 600 to 800 mg/day for one month and then to the maintenance dose, usually 400 mg/day. (2)

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**DOSAGE FORMS AND STRENGTHS**  
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Tablets: 100 mg, 200 mg and 400 mg (3)

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**CONTRAINDICATIONS**  
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Pacerone is contraindicated in patients with (4):

- Cardiogenic shock.
- Sick sinus syndrome, second- or third-degree AV block, bradycardia leading to syncope without a functioning pacemaker.
- Known hypersensitivity to the drug or any of its components.

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**WARNINGS AND PRECAUTIONS**  
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- Persistence of Adverse Effects: Adverse reactions and drug interaction can persist for several weeks following discontinuation. (5.1)
- Impaired Vision: Corneal microdeposits (common; reversible), optic neuropathy/neuritis (rare; may lead to blindness). (5.5)
- Thyroid Abnormalities: Hyperthyroidism or hypothyroidism. (5.6)

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**ADVERSE REACTIONS**  
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- The most common reactions (>1%) leading to discontinuation of amiodarone include pulmonary toxicity, paroxysmal ventricular tachycardia, congestive heart failure, and elevation of liver enzymes. (6)

**To report SUSPECTED ADVERSE REACTIONS, contact Upsher-Smith Laboratories, LLC at 1-855-899-9180 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

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**DRUG INTERACTIONS**  
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- Avoid coadministration of amiodarone with other antiarrhythmics and drugs known to prolong the QT interval. (7)
- 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)

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**USE IN SPECIFIC POPULATIONS**  
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- Pregnancy: May cause fetal harm. (8.1)
- Lactation: Breastfeeding not recommended. (8.2)

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## **WARNING: PULMONARY, HEPATIC and CARDIAC TOXICITY**

**Pacerone is intended for use only in patients with the indicated life-threatening arrhythmias because its use is accompanied by substantial toxicity [see *Indications and Usage (1)*].**

**Pacerone can cause pulmonary toxicity (hypersensitivity pneumonitis or interstitial/alveolar pneumonitis) that has resulted in clinically manifest disease at rates as high as 17% in some series of patients. Pulmonary toxicity has been fatal about 10% of the time. Obtain a baseline chest X-ray and pulmonary-function tests, including diffusion capacity, when Pacerone therapy is initiated. Repeat history, physical exam, and chest X-ray every 3 to 6 months [see *Warnings and Precautions 5.2*].**

**Pacerone can cause hepatotoxicity, which can be fatal. Obtain baseline and periodic liver transaminases and discontinue or reduce dose if the increase exceeds three times normal, or doubles in a patient with an elevated baseline. Discontinue Pacerone if the patient experiences signs or symptoms of clinical liver injury [see *Warnings and Precautions (5.3)*].**

**Pacerone can exacerbate arrhythmias. Initiate amiodarone hydrochloride in a clinical setting where continuous electrocardiograms and cardiac resuscitation are available [see *Warnings and Precautions (5.4)*].**

## **1 INDICATIONS AND USAGE**

Pacerone is indicated for the treatment of documented, life-threatening recurrent ventricular fibrillation and life-threatening recurrent hemodynamically unstable tachycardia in adults who have not responded to adequate doses of other available antiarrhythmics or when alternative agents cannot be tolerated.

## **2 DOSAGE AND ADMINISTRATION**

Dosage must be individualized based on severity of arrhythmia and response. Use the lowest effective dose. Obtain baseline chest x-ray, pulmonary function tests, thyroid function tests, and liver aminotransferases. Correct hypokalemia, hypomagnesemia, and hypocalcemia before initiating treatment.

### *Recommended Dosage:*

Initiate treatment with a loading dose of 800 to 1600 mg/day until initial therapeutic response occurs (usually 1 to 3 weeks). Once adequate arrhythmia control is achieved, or if side effects become prominent, reduce Pacerone tablet dose to 600 to 800 mg/day for one month and then to the maintenance dose, usually 400 mg/day.

### *Administration:*

Administer Pacerone tablets consistently with regard to meals [see *Clinical Pharmacology (12.3)*]. Administration of Pacerone tablets in divided doses with meals is suggested for total daily doses of 1000 mg or higher, or when gastrointestinal intolerance occurs.

## **3 DOSAGE FORMS AND STRENGTHS**

Pacerone tablets, 100 mg, are peach, round, flat-faced, uncoated tablets, debossed with "P" on one side, and "U-S" above "144" on the other side.

Pacerone tablets, 200 mg, are pink, round, flat-faced, scored, uncoated tablets, debossed with "P<sub>200</sub>" on the unscored side, and "U-S" above and "0147" below the score on the reverse side.

Pacerone tablets, 400 mg, are white to off-white, round, uncoated, scored tablets, debossed with "U-S" above and "1645" below the score on one side and "P<sub>400</sub>" on the unscored side.

## 4 CONTRAINDICATIONS

- Cardiogenic shock.
- Sick sinus syndrome, second- or third-degree atrioventricular block, bradycardia leading to syncope without a functioning pacemaker.
- Known hypersensitivity to the drug or to any of its components, including iodine.

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Persistence of Adverse Effects

Because of the long half-life of amiodarone (15 to 142 days) and its active metabolite desethylamiodarone (14 to 75 days), adverse reactions and drug interactions can persist for several weeks following amiodarone discontinuation [see *Clinical Pharmacology (12.3)*].

### 5.2 Pulmonary Toxicity

Pacerone may cause a clinical syndrome of cough and progressive dyspnea accompanied by functional, radiographic, gallium-scan, and pathological data consistent with pulmonary toxicity. Pulmonary toxicity secondary to Pacerone may result from either indirect or direct toxicity as represented by hypersensitivity pneumonitis (including eosinophilic pneumonia) or interstitial/alveolar pneumonitis, respectively. Rates of pulmonary toxicity have been reported to be as high as 17% and is fatal in about 10% of cases. Obtain a baseline chest X-ray and pulmonary-function tests, including diffusion capacity, when Pacerone therapy is initiated. Repeat history, physical exam, and chest X-ray every 3 to 6 months or if symptoms occur. Consider alternative antiarrhythmic therapy if the patient experiences signs or symptoms of pulmonary toxicity. Prednisone 40 to 60 mg/day tapered over several weeks may be helpful in treating pulmonary toxicity.

#### Adult Respiratory Distress Syndrome (ARDS)

Postoperatively, occurrences of ARDS have been reported in patients receiving amiodarone hydrochloride therapy who have undergone either cardiac or noncardiac surgery. Although patients usually respond well to vigorous respiratory therapy, in rare instances the outcome has been fatal.

### 5.3 Hepatic Injury

Asymptomatic elevations of hepatic enzyme levels are seen frequently, but Pacerone can cause life-threatening hepatic injury. Histology has resembled that of alcoholic hepatitis or cirrhosis. Obtain baseline and periodic liver transaminases. If transaminases exceed three times normal, or doubles in a patient with an elevated baseline, discontinue or reduce dose of Pacerone, obtain follow-up tests and treat appropriately.

### 5.4 Worsened Arrhythmia

Pacerone can exacerbate the presenting arrhythmia in about 2% to 5% of patients or cause new ventricular fibrillation, incessant ventricular tachycardia, increased resistance to cardioversion, and polymorphic ventricular tachycardia associated with QTc prolongation (Torsade de Pointes [TdP]).

Correct hypokalemia, hypomagnesemia, and hypocalcemia before initiating treatment with amiodarone hydrochloride, 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 receiving drugs affecting electrolyte levels, such as diuretics, laxatives, systemic corticosteroids, or amphotericin B.

### 5.5 Visual Impairment and Loss of Vision

#### Optic Neuropathy and Optic Neuritis

Cases of optic neuropathy and optic neuritis, usually resulting in visual impairment and sometimes

permanent blindness, have been reported in patients treated with amiodarone and may occur at any time during therapy. If symptoms of visual impairment appear, such as changes in visual acuity and decreases in peripheral vision, consider discontinuing Pacerone and promptly refer for ophthalmic examination. Regular ophthalmic examination, including funduscopy and slit-lamp examination, is recommended during administration of Pacerone [see *Adverse Reactions (6.1)*].

### Corneal Microdeposits

Corneal microdeposits appear in the majority of adults treated with amiodarone hydrochloride. They are usually discernible only by slit-lamp examination but give rise to symptoms such as visual halos or blurred vision in as many as 10% of patients. Corneal microdeposits are reversible upon reduction of dose or termination of treatment. Asymptomatic microdeposits alone are not a reason to reduce dose or discontinue treatment [see *Adverse Reactions (6.1)*].

## **5.6 Thyroid Abnormalities**

Amiodarone hydrochloride inhibits peripheral conversion of thyroxine ( $T_4$ ) to triiodothyronine ( $T_3$ ) and may cause increased thyroxine levels, decreased  $T_3$  levels, and increased levels of inactive reverse  $T_3$  ( $rT_3$ ) in clinically euthyroid patients. Amiodarone hydrochloride can cause either hypothyroidism (reported in up to 10% of patients) or hyperthyroidism (occurring in about 2% of 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,  $\beta$ -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. Pacerone-induced hyperthyroidism may be followed by a transient period of hypothyroidism.

Hypothyroidism may be primary or subsequent to resolution of preceding amiodarone-induced hyperthyroidism. Severe hypothyroidism and myxedema coma, sometimes fatal, have been reported in association with amiodarone therapy. In some clinically hypothyroid amiodarone-treated patients, free thyroxine index values may be normal. Manage hypothyroidism by reducing the dose of or discontinuing Pacerone and thyroid hormone supplementation.

## **5.7 Bradycardia**

Pacerone causes symptomatic bradycardia or sinus arrest with suppression of escape foci in 2% to 4% of patients. The risk is increased by electrolytic disorders or use of concomitant antiarrhythmics or negative chronotropes [see *Drug Interactions (7)*]. Bradycardia may require a pacemaker for rate control.

Post-marketing cases of symptomatic bradycardia, some requiring pacemaker insertion and at least one fatal, have been reported when ledipasvir/sofosbuvir or sofosbuvir with simeprevir were initiated in patients on amiodarone. Bradycardia generally occurred within hours to days, but in some cases presented up to 2 weeks after initiating antiviral treatment. Bradycardia generally resolved after discontinuation of antiviral treatment. The mechanism for this effect is unknown. Monitor heart rate in patients taking or recently discontinuing amiodarone when starting antiviral treatment [see *Drug Interactions (7)*].

## **5.8 Implantable Cardiac Devices**

In patients with implanted defibrillators or pacemakers, chronic administration of antiarrhythmic drugs may affect pacing or defibrillation thresholds. Therefore, at the inception of and during amiodarone treatment, pacing and defibrillation thresholds should be assessed.

## 5.9 Fetal Toxicity

Pacerone may cause fetal harm when administered to a pregnant woman. Fetal exposure may increase the potential for cardiac, thyroid, neurodevelopmental, neurological, and growth effects in neonate [see Use in Specific Populations (8.1)].

## 5.10 Peripheral Neuropathy

Chronic administration of Pacerone may lead to peripheral neuropathy, which may not resolve when Pacerone is discontinued.

## 5.11 Photosensitivity and Skin Discoloration

Pacerone induces photosensitization in about 10% of patients; some protection may be afforded sun-barrier creams or protective clothing. During long-term treatment, a blue-gray discoloration of the exposed skin may occur. The risk may be increased in patients of fair complexion or those with excessive sun exposure. Some reversal of discoloration may occur upon drug discontinuation.

## 5.12 Surgery

### Volatile Anesthetic Agents

Patients on Pacerone therapy may be more sensitive to the myocardial depressant and conduction effects of halogenated inhalational anesthetics.

## 6 ADVERSE REACTIONS

The following serious adverse reactions are described in more detail in other sections of the prescribing information:

- Pulmonary Toxicity [see Warnings and Precautions (5.2)]
- Hepatic Injury [see Warnings and Precautions (5.3)]
- Worsened Arrhythmia [see Warnings and Precautions (5.4)]
- Visual Impairment and Loss of Vision [see Warnings and Precautions (5.5)]
- Thyroid Abnormalities [see Warnings and Precautions (5.6)]
- Bradycardia [see Warnings and Precautions (5.7)]
- Peripheral Neuropathy [see Warnings and Precautions (5.10)]
- Photosensitivity and Skin Discoloration [see Warnings and Precautions (5.11)]

### 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.

At the usual maintenance dose (400 mg/day) and above, amiodarone hydrochloride causes adverse reactions in about three-fourths of all patients, resulting in discontinuation in 7% to 18%.

In surveys of almost 5,000 patients treated in open U.S. studies and in published reports of treatment with amiodarone hydrochloride, the adverse reactions most frequently requiring discontinuation of amiodarone hydrochloride included pulmonary infiltrates or fibrosis, paroxysmal ventricular tachycardia, congestive heart failure, and elevation of liver enzymes. Other symptoms causing discontinuations less often included visual disturbances, photosensitivity, blue skin discoloration, hyperthyroidism, and hypothyroidism.

The following side-effect rates are based on a retrospective study of 241 patients treated for 2 to 1,515 days (mean 441.3 days):

### Thyroid

Common: Hypothyroidism, hyperthyroidism.

#### Cardiovascular

Common: Congestive heart failure, cardiac arrhythmias, SA node dysfunction.

#### Gastrointestinal

Very common: Nausea, vomiting.

Common: Constipation, anorexia, abdominal pain.

#### Dermatologic

Common: Solar dermatitis/photosensitivity.

#### Neurologic

Common: Malaise and fatigue, tremor/abnormal involuntary movements, lack of coordination, abnormal gait/ataxia, dizziness, paresthesias, decreased libido, insomnia, headache, sleep disturbances.

#### Ophthalmic

Common: Visual disturbances.

#### Hepatic

Common: Abnormal liver-function tests, nonspecific hepatic disorders.

#### Respiratory

Common: Pulmonary inflammation or fibrosis.

#### Other

Common: Flushing, abnormal taste and smell, edema, abnormal salivation, coagulation abnormalities.

Uncommon: Blue skin discoloration, rash, spontaneous ecchymosis, alopecia, hypotension, and cardiac conduction abnormalities.

### **6.2 Post-marketing Experience**

The following adverse reactions have been identified during post-approval use of amiodarone hydrochloride. 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.

*Hematologic:* hemolytic anemia, aplastic anemia, pancytopenia, neutropenia, thrombocytopenia, agranulocytosis, granuloma.

*Immune:* anaphylactic/anaphylactoid reaction (including shock), angioedema.

*Neurologic:* pseudotumor cerebri, parkinsonian symptoms such as akinesia and bradykinesia (sometimes reversible with discontinuation of therapy), demyelinating polyneuropathy.

*Psychiatric:* hallucination, confusional state, disorientation, delirium.

*Cardiac:* hypotension (sometimes fatal), sinus arrest.

*Respiratory:* eosinophilic pneumonia, acute respiratory distress syndrome in the post-operative setting, bronchospasm, bronchiolitis obliterans organizing pneumonia, pulmonary alveolar hemorrhage, pleural effusion, pleuritis.

*Gastrointestinal:* pancreatitis, acute pancreatitis.

*Hepatic:* hepatitis, cholestatic hepatitis, cirrhosis.

*Skin and Subcutaneous Tissue Disorders:* urticaria, toxic epidermal necrolysis (sometimes fatal), erythema multiforme, Stevens-Johnson syndrome, exfoliative dermatitis, bullous dermatitis, drug rash

with eosinophilia and systemic symptoms (DRESS), eczema, pruritus, skin cancer, lupus-like syndrome.

*Musculoskeletal:* myopathy, muscle weakness, rhabdomyolysis.

*Renal:* renal impairment, renal insufficiency, acute renal failure.

*Reproductive:* epididymitis, impotence.

*Body as a whole:* fever, dry mouth.

*Endocrine and metabolic:* thyroid nodules/ thyroid cancer, syndrome of inappropriate antidiuretic hormone secretion (SIADH).

*Vascular:* vasculitis.

## 7 DRUG INTERACTIONS

Because of amiodarone's long half-life, expect drug interactions to persist for weeks to months after discontinuation of amiodarone.

Drug interactions with amiodarone are described in Table 1 below.

**Table 1: Amiodarone Drug Interactions**

<b>Concomitant Drug Class/Name</b>	<b>Examples</b>	<b>Clinical Comment</b>
<i>Pharmacodynamic Interactions</i>		
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.
<i>Pharmacokinetic Interactions</i>		
CYP450 Inhibitors	grapefruit juice, certain fluoroquinolone and macrolide antibiotics, azole antifungals, cimetidine, certain protease inhibitors	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 prothrombin time by 100% after 3 to 4 days. Reduce warfarin dose by one-third to one-half and monitor prothrombin times.
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

ACUNG AMIODARONE		maintenance amiodarone who initiated therapy with sofosbuvir.
CYP3A Substrate	lidocaine	Sinus bradycardia has been reported with oral amiodarone in combination with lidocaine given for local anesthesia. Monitor heart rate. A lower starting dose of lidocaine may be required.
CYP3A Substrate	fentanyl	Fentanyl in combination with amiodarone may cause hypotension, bradycardia, and decreased cardiac output.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

Available data from post-marketing 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% to 4% and 15% to 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. Patients treated with Pacerone should be monitored continuously during labor and delivery [*see Warnings and Precautions (5.4)*].

### Data

#### *Animal Data*

In pregnant rats and rabbits during the period of organogenesis, amiodarone hydrochloride in doses of 25 mg/kg/day (approximately 0.4 and 0.9 times, respectively, the maximum recommended human maintenance dose<sup>1</sup>) had no adverse effects on the fetus. In the rabbit, 75 mg/kg/day (approximately 2.7 times the maximum recommended human maintenance dose<sup>1</sup>) 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. (These doses in the rat are approximately 0.8, 1.6 and 3.2 times the maximum recommended human maintenance dose<sup>1</sup>) 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<sup>1</sup>).

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<sup>1</sup> 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 Pacerone [*see Warnings and Precautions (5.6, 5.7)*].

## **8.3 Females and Males of Reproductive Potential**

### Infertility

Based on animal fertility studies, amiodarone hydrochloride 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 Pacerone in pediatric patients have not been established.

## **8.5 Geriatric Use**

Normal subjects over 65 years of age show lower clearances and increased drug half-life than younger subjects [*see Clinical Pharmacology (12.3)*]. 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.

## **10 OVERDOSAGE**

There have been cases, some fatal, of amiodarone hydrochloride overdose.

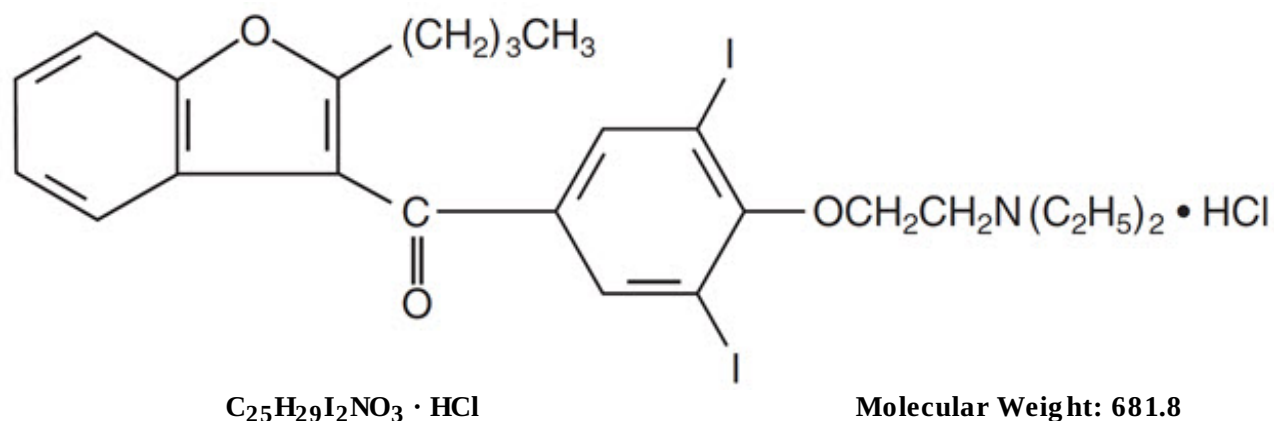
Monitor the patient's cardiac rhythm and blood pressure, and, if bradycardia ensues, a  $\beta$ -adrenergic agonist or a pacemaker may be used. Treat hypotension with inadequate tissue perfusion with positive inotropic and vasopressor agents. Neither Pacerone nor its metabolite is dialyzable.

## 11 DESCRIPTION

Pacerone (amiodarone hydrochloride tablets, USP) are an antiarrhythmic drug, available for oral administration as 100 mg; peach tablets, 200 mg; pink tablets and 400 mg; white tablets containing amiodarone hydrochloride, USP. All three strengths of Pacerone tablets contain the following inactive ingredients: lactose monohydrate, magnesium stearate, povidone, pregelatinized corn starch, sodium starch glycolate and stearic acid. The 200 mg tablets also contain FD&C Red No. 40 and FD&C Yellow No. 6. The 100 mg tablets also contain FD&C Yellow No. 6.

Amiodarone hydrochloride, USP is a benzofuran derivative: 2-butyl-3-benzofuranyl 4-[2-(diethylamino)-ethoxy]-3,5-diiodophenyl ketone hydrochloride.

The structural formula is as follows:



Amiodarone hydrochloride, USP is a white to cream-colored crystalline powder. It is slightly soluble in water, soluble in alcohol, and freely soluble in chloroform. It contains 37.3% iodine by weight.

Meets USP Dissolution Test 4.

## 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 antisymphathetic 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 antisymphathetic 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.

Pacerone prolongs the duration of the action potential of all cardiac fibers while causing minimal reduction of  $dV/dt$  (maximal upstroke velocity of the action potential). The refractory period is prolonged in all cardiac tissues. Amiodarone hydrochloride increases the cardiac refractory period without influencing resting membrane potential, except in automatic cells where the slope of the prepotential is reduced, generally reducing automaticity. These electrophysiologic effects are reflected in a decreased sinus rate of 15% to 20%, increased PR and QT intervals of about 10%, the

development of U-waves, and changes in T-wave contour. These changes should not require discontinuation of Pacerone as they are evidence of its pharmacological action, although Pacerone can cause marked sinus bradycardia or sinus arrest and heart block [see *Warnings and Precautions (5.4)*].

### Hemodynamics

In animal studies and after intravenous administration in man, amiodarone hydrochloride relaxes vascular smooth muscle, reduces peripheral vascular resistance (afterload), and slightly increases cardiac index. After oral dosing, however, amiodarone hydrochloride produces no significant change in left ventricular ejection fraction (LVEF), even in patients with depressed LVEF. After acute intravenous dosing in man, amiodarone hydrochloride may have a mild negative inotropic effect.

## **12.2 Pharmacodynamics**

There is no well-established relationship between plasma concentration and effectiveness, but it does appear that concentrations much below 1 mg/L are often ineffective and that levels above 2.5 mg/L are generally not needed. Plasma-concentration measurements can be used to identify patients whose levels are unusually low, and who might benefit from a dose increase, or unusually high, and who might have dosage reduction in the hope of minimizing side effects.

Effects on abnormal rhythms are not seen before 2 to 3 days and usually require 1 to 3 weeks, even when a loading dose is used. There may be a continued increase in effect for longer periods still. There is evidence that the time to effect is shorter when a loading-dose regimen is used.

Consistent with the slow rate of elimination, antiarrhythmic effects persist for weeks or months after amiodarone hydrochloride is discontinued, but the time of recurrence is variable and unpredictable. In general, when the drug is resumed after recurrence of the arrhythmia, control is established relatively rapidly compared to the initial response, presumably because tissue stores were not wholly depleted.

## **12.3 Pharmacokinetics**

### Absorption

Following oral administration in humans, amiodarone hydrochloride is slowly and variably absorbed. The bioavailability of amiodarone hydrochloride is approximately 50%. Maximum plasma concentrations are attained 3 to 7 hours after a single dose. Plasma concentrations with chronic dosing at 100 to 600 mg/day are approximately dose proportional, with a mean 0.5 mg/L increase for each 100 mg/day. These means, however, include considerable individual variability.

Food increases the rate and extent of absorption of amiodarone hydrochloride. The effects of food upon the bioavailability of amiodarone hydrochloride have been studied in 30 healthy subjects who received a single 600-mg dose immediately after consuming a high-fat meal and following an overnight fast. The area under the plasma concentration-time curve (AUC) and the peak plasma concentration ( $C_{\max}$ ) of amiodarone increased by 2.3 (range 1.7 to 3.6) and 3.8 (range 2.7 to 4.4) times, respectively, in the presence of food. Food also increased the rate of absorption of amiodarone, decreasing the time to peak plasma concentration ( $T_{\max}$ ) by 37%. The mean AUC and mean  $C_{\max}$  of the major metabolite of amiodarone, DEA increased by 55% (range 58% to 101%) and 32% (range 4% to 84%), respectively, but there was no change in the  $T_{\max}$  in the presence of food.

### Distribution

Pacerone is highly protein-bound (approximately 96%). Pacerone has a very large but variable volume of distribution, averaging about 60 L/kg, because of extensive accumulation in various sites, especially adipose tissue and highly perfused organs, such as the liver, lung, and spleen.

One major metabolite of amiodarone hydrochloride, DEA, has been identified in man; it accumulates to an even greater extent in almost all tissues. 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 hydrochloride administration in humans correlates more closely with DEA accumulation over time than with amiodarone accumulation.

### Elimination

Following single dose administration in 12 healthy subjects, amiodarone hydrochloride exhibited multi-compartmental pharmacokinetics with a mean apparent plasma terminal elimination half-life of 58 days (range 15 to 142 days) for amiodarone and 36 days (range 14 to 75 days) for the active metabolite (DEA). In patients, following discontinuation of chronic oral therapy, amiodarone hydrochloride has been shown to have a biphasic elimination with an initial 50% reduction of plasma levels after 2.5 to 10 days. A much slower terminal plasma-elimination phase shows a half-life of the parent compound ranging from 26 to 107 days, with a mean of approximately 53 days and most patients in the 40- to 55-day range. In the absence of a loading-dose period, steady-state plasma concentrations, at constant oral dosing, would therefore be reached between 130 and 535 days, with an average of 265 days. For the metabolite, the mean plasma-elimination half-life was approximately 61 days. These data probably reflect an initial elimination of drug from well-perfused tissue (the 2.5- to 10-day half-life phase), followed by a terminal phase representing extremely slow elimination from poorly perfused tissue compartments such as fat.

The considerable inter-subject variation in both phases of elimination, as well as uncertainty as to what compartment is critical to drug effect, requires attention to individual responses once arrhythmia control is achieved with loading doses because the correct maintenance dose is determined, in part, by the elimination rates. Individualize maintenance doses of Pacerone tablets [*see Dosage and Administration (2)*].

### Metabolism

Amiodarone is metabolized to DEA by the cytochrome P450 (CYP) enzyme group, specifically CYP3A and CYP2C8. The CYP3A isoenzyme is present in both the liver and intestines. *In vitro*, amiodarone and DEA exhibit a potential to inhibit CYP2C9, CYP2C19, CYP2D6, CYP3A, CYP2A6, CYP2B6 and CYP2C8. Amiodarone and DEA have also a potential to inhibit some transporters such as P-glycoprotein and organic cation transporter (OCT2).

### Excretion

Amiodarone is eliminated primarily by hepatic metabolism and biliary excretion and there is negligible excretion of amiodarone or DEA in urine. Neither amiodarone nor DEA is dialyzable.

### Specific Populations

*Effect of Age:* Normal subjects over 65 years of age show lower clearances (about 100 mL/hr/kg) than younger subjects (about 150 mL/hr/kg) and an increase in  $t_{1/2}$  from about 20 to 47 days.

*Renal Impairment:* Renal impairment 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:

*Effects of other agents on amiodarone*

Grapefruit juice: Grapefruit juice given to healthy volunteers increased amiodarone AUC by 50% and

$C_{max}$  by 84%, and decreased DEA to unquantifiable concentrations.

Cimetidine inhibits CYP3A and can increase serum amiodarone levels.

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

*Effects of amiodarone on agents*

CYP3A substrates:

Amiodarone taken concomitantly with *quinidine* increases the 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.

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

*Clopidogrel*, an inactive thienopyridine prodrug, is metabolized in the liver by CYP3A to an active metabolite. A potential interaction between clopidogrel and amiodarone resulting in ineffective inhibition of platelet aggregation has been reported.

Macrolide/ketolide antibiotics:

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

P-glycoprotein substrates:

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

Dabigatran etexilate when taken concomitantly with oral amiodarone can result in elevated serum concentration of dabigatran.

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.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Amiodarone hydrochloride was associated with a statistically significant, dose-related increase in the incidence of thyroid tumors (follicular adenoma and/or carcinoma) in rats. The incidence of thyroid tumors was greater than control at the lowest dose level tested, i.e., 5 mg/kg/day (approximately 0.08 times the maximum recommended human maintenance dose<sup>2</sup>).

Mutagenicity studies (Ames, micronucleus, and lysogenic tests) with amiodarone hydrochloride were negative.

In a study in which amiodarone hydrochloride was 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<sup>2</sup>).

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<sup>2</sup> 600 mg in a 60 kg patient (dose compared on a body surface area basis)

## 16 HOW SUPPLIED/STORAGE AND HANDLING

Pacerone<sup>®</sup> (amiodarone hydrochloride tablets, USP) 100 mg are peach, round, flat-faced, uncoated tablets, debossed with "P" on one side, and "U-S" above "144" on the other side. They are supplied as follows:

- Bottles of 30 with child-resistant closure, NDC 0245-0144-30
- Bottles of 100 with child-resistant closure, NDC 0245-0144-11
- Unit-dose cartons of 100 tablets, NDC 0245-0144-01

Pacerone<sup>®</sup> (amiodarone hydrochloride tablets, USP) 200 mg, are pink, round, flat-faced, scored, uncoated tablets, debossed with "P<sub>200</sub>" on the unscored side, and "U-S" above and "0147" below the score on the reverse side. They are supplied as follows:

- Bottles of 60 with child-resistant closure, NDC 0245-0147-60
- Bottles of 90 with child-resistant closure, NDC 0245-0147-90
- Bottles of 500 tablets, NDC 0245-0147-15
- Unit-dose cartons of 100 tablets, NDC 0245-0147-01

Pacerone<sup>®</sup> (amiodarone hydrochloride tablets, USP) 400 mg, are white to off-white, round, uncoated, scored tablets, debossed with "U-S" above and "1645" below the score on one side and "P<sub>400</sub>" on the unscored side. They are supplied as follows:

- Bottles of 30 with child-resistant closure, NDC 0245-1645-30
- Unit-dose cartons of 100 tablets, NDC 0245-1645-01

Keep tightly closed.

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 light.

Dispense in a tight, light-resistant container with a child-resistant closure.

## 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to inform their prescriber of a known or suspected pregnancy [*see Use in Specific Populations (8.1)*].

Advise women that breastfeeding is not recommended during treatment with Pacerone [*see Use in Specific Populations (8.2)*].

Advise patients to avoid grapefruit juice and St. John's Wort.

Advise patients to seek medical attention if they experience the signs and symptoms of pulmonary toxicity, worsening arrhythmia, bradycardia, visual impairment, or hypo- and hyperthyroidism.

This product's label may have been updated. For full prescribing information, please visit [www.upsher-smith.com](http://www.upsher-smith.com).

Manufactured by  
**UPSHER-SMITH LABORATORIES, LLC**  
Maple Grove, MN 55369

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**MEDICATION GUIDE**  
**Pacerone® (PĀS-r-ōn) Tablets**  
**(Amiodarone Hydrochloride)**

**What is the most important information I should know about Pacerone tablets?**

**Pacerone tablets can cause serious side effects that can lead to death, including:**

- lung problems
- liver problems
- worsening of heartbeat problems

**Call your healthcare provider or get medical help right away if you have any of the following symptoms during treatment with Pacerone tablets:**

- trouble breathing, wheezing, shortness of breath, coughing chest pain, spitting up of blood, or fever
- nausea or vomiting, brown or dark-colored urine, feel more tired than usual, yellowing of your skin or the whites of your eyes (jaundice), or right upper stomach-area pain
- heart pounding, skipping a beat, beating fast or slowly, feel light-headed, or if you faint
- vision problems, including blurred vision, see halos, or your eyes become sensitive to light. You should have regular eye exams before and during treatment with Pacerone tablets.

Pacerone tablets should be started in a hospital so that your medical condition can be carefully monitored.

Pacerone tablets should only be used to treat people who have been diagnosed with life-threatening heartbeat problems called ventricular arrhythmias, when other treatments did not work or you cannot tolerate them.

**Pacerone tablets can cause other serious side effects. See "What are the possible side effects of Pacerone tablets?"**

**If you get serious side effects during treatment you may need to stop Pacerone tablets, have your dose changed, or get medical treatment. Talk with your healthcare provider before you stop taking Pacerone tablets.**

You may still have side effects after stopping Pacerone tablets because the medicine stays in your body for months after treatment is stopped.

You should have regular check-ups, blood tests, chest x-rays before and during treatment with Pacerone tablets to check for serious side effects. You should also have lung function tests before starting treatment with Pacerone tablets.

**What are Pacerone tablets?**

Pacerone tablets are a prescription medicine used to treat people who have been diagnosed with life-threatening heartbeat problems called ventricular arrhythmias, when other treatments did not work or you cannot tolerate them. It is not known if Pacerone tablets are safe and effective in children.

**Who should not take Pacerone tablets?**

**Do not take Pacerone tablets if you:**

- have a serious heart problem called cardiogenic shock
- have certain types of the heart condition called heart block, with or without a slow heart rate
- have a slow heart rate with dizziness or lightheadedness, and you do not have an implanted pacemaker
- are allergic to amiodarone, iodine, or any of the other ingredients in Pacerone tablets. See the end of this Medication Guide for a complete list of ingredients in Pacerone tablets.

**Before taking Pacerone tablets, tell your healthcare provider about all of your medical conditions, including if you:**

- have lung or breathing problems
- have liver problems

- have or had thyroid problems
- have a slow heart rate or blood pressure problems
- have diarrhea or have had diarrhea for a long period of time
- have been told that you have low levels of potassium, magnesium, or calcium in your blood
- have an implanted pacemaker or defibrillator
- if you plan to have surgery with general anesthesia
- are pregnant or plan to become pregnant. Pacerone tablets may harm your unborn baby. Tell your healthcare provider right away if you become pregnant during treatment with Pacerone tablets. Pacerone can stay in your body for months after treatment is stopped.
- are breastfeeding or plan to breastfeed. Pacerone can pass into your breast milk and may harm your baby. You should not breast feed while taking Pacerone tablets. Pacerone can stay in your body for months after treatment is stopped. Talk to your healthcare provider about the best way to feed your baby during this time.

Tell your healthcare provider about all the medicines you take including prescription and over-the-counter medicines, vitamins, and herbal supplements. Pacerone tablets and certain other medicines can affect with each other and cause serious side effects. You can ask your pharmacist for a list of medicines that interact with Pacerone tablets.

#### **How should I take Pacerone tablets?**

- When you are discharged from the hospital, take Pacerone tablets **exactly** as your doctor tells you to take it.
- Your healthcare provider will tell you how much Pacerone to take and when to take it.
- Your healthcare provider may change your dose of Pacerone as needed if your heart rhythm is controlled, or if you have certain side effects. Your healthcare provider should monitor you carefully when your dose of Pacerone is being changed.
- **Take your dose of Pacerone tablets the same way each time, either with or without food.**
- If you take too much Pacerone, call your healthcare provider or go to the nearest hospital emergency room right away. If you miss a dose, wait and take your next dose at your regular time. Do not take two doses at the same time. Continue with your next regularly scheduled dose.

#### **What should I avoid while taking Pacerone tablets?**

- Avoid drinking grapefruit juice during treatment with Pacerone. Drinking grapefruit juice with Pacerone tablets may increase the amount of Pacerone in your blood, and this may lead to side effects.
- Pacerone tablets can make your skin sensitive to sunlight. You could get severe sunburn. Use sunscreen and wear a hat and clothes that cover your skin to help protect you if you must be in sunlight. Talk to your healthcare if you get a sunburn. See "Skin problems" in the Medication Guide section "**What are the possible side effects of Pacerone tablets?**" below.

#### **What are the possible side effects of Pacerone tablets?**

**Pacerone tablets can cause serious side effects, including:**

- See "**What is the most important information I should know about Pacerone tablets?**"
- **Nerve problems.** Pacerone tablets can cause nerve problems. Call your healthcare provider if you develop symptoms of nerve problems, including: a feeling of "pins and needles" or numbness in your hands, legs, or feet, muscle weakness, uncontrolled movements, poor coordination, or trouble walking.
- **Skin problems.** Pacerone tablets can cause your skin to be more sensitive to the sun or turn a bluish-gray color. People who have fair skin or people who have a lot of sun exposure may be more at risk for these skin problems. Some of the bluish-gray skin color may return to normal after stopping Pacerone tablets.
- **Thyroid problems.** Pacerone tablets can cause you to have either decreased thyroid function (hypothyroidism), which can sometimes be severe, or an overactive thyroid (hyperthyroidism),

which can be severe.

- If you develop decreased thyroid function during treatment with Pacerone tablets, your healthcare provider may need to reduce your dose or stop your treatment with Pacerone tablets, and possibly prescribe medicine to replace your thyroid hormone.
- An overactive thyroid can cause you to produce too much thyroid hormone. You can have abnormal heartbeats even while you are receiving Pacerone tablets. Your healthcare provider may prescribe certain medicines to treat your overactive thyroid. Call your healthcare provider if you get any abnormal heartbeats during treatment with Pacerone tablets. This may mean that you have an overactive thyroid.
- Your healthcare provider should do tests to check your thyroid function before you start and during treatment with Pacerone tablets.
- Call your healthcare provider if you develop any of the following symptoms of a thyroid problem during treatment with Pacerone tablets:
  - weakness
  - weight loss or weight gain
  - heat or cold intolerance
  - hair thinning
  - sweating
  - changes in your menstrual periods
  - swelling of your neck (goiter)
  - nervousness
  - irritability
  - restlessness
  - decreased concentration
  - feeling depressed (in the elderly)
  - tremor

The most common side effects of Pacerone tablets include:

- lung problems
- heartbeat problems
- heart problems
- liver problems

Pacerone tablets may affect fertility in males and females. It is not known if the effects are reversible. Talk to your healthcare provider if you have concerns about fertility.

These are not all the possible side effects of Pacerone tablets. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

#### **How should I store Pacerone tablets?**

- Store Pacerone tablets at room temperature between 20° to 25°C (68° to 77°F).
- Keep Pacerone tablets in a tightly closed container and keep Pacerone tablets out of the light.
- Pacerone comes in a child-resistant package.

#### **Keep Pacerone tablets and all medicines out of the reach of children.**

#### **General information about the safe and effective use of Pacerone tablets**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use Pacerone tablets for a condition for which it was not prescribed. Do not give Pacerone tablets to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about Pacerone tablets that is written for health professionals.

#### **What are the ingredients in Pacerone tablets?**

**Active Ingredient:** amiodarone hydrochloride

**Inactive Ingredients:** lactose monohydrate, magnesium stearate, povidone, pregelatinized corn starch, sodium starch glycolate, stearic acid, FD&C Red No. 40 (200 mg) and FD&C Yellow No. 6 (100 mg and 200 mg).

For more information and the most current Medication Guide, please visit [www.upsher-smith.com](http://www.upsher-smith.com) or call 1-888-650-3789.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Manufactured by  
**UPSHER-SMITH LABORATORIES, LLC**  
Maple Grove, MN 55369

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Revised 5/2020

### PRINCIPAL DISPLAY PANEL - 100 mg Tablet Bottle Label

NDC 0245-0144-30

Pacerone<sup>®</sup>  
(Amiodarone Hydrochloride  
Tablets, USP)

100 mg

PHARMACIST: Dispense  
the Medication Guide  
provided separately  
to each patient.

30 Tablets

Rx only

UPSHER-SMITH

NDC 0245-0144-30

**Pacerone<sup>®</sup>**  
(Amiodarone Hydrochloride  
Tablets, USP)

**100 mg**

PHARMACIST: Dispense  
the Medication Guide  
provided separately  
to each patient.

30 Tablets

Rx only

**UPSHER-SMITH**

Each tablet contains: Amiodarone hydrochloride, USP 100 mg  
**Usual Adult Dosage:** See package insert for full prescribing information.  
**Note to authorized dispenser:** Obtain additional Medication Guides by  
visiting [www.upsher-smith.com](http://www.upsher-smith.com) or by calling 1-888-650-3789.  
This package is child-resistant. 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].  
Keep tightly closed. Protect from light. Dispense in a tight,  
light-resistant container with a child-resistant closure.  
**Keep out of reach of children.**  
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Maple Grove, MN 55369  
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0245-0144-30 4

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### PRINCIPAL DISPLAY PANEL - 200 mg Tablet Bottle Label

NDC 0245-0147-60

Pacerone<sup>®</sup>  
(Amiodarone Hydrochloride  
Tablets, USP)

200 mg

PHARMACIST: Dispense  
the Medication Guide  
provided separately  
to each patient.

60 Tablets

Rx only

UPSHER-SMITH



**NDC 0245-0147-60**  
**Pacerone<sup>®</sup>**  
**(Amiodarone Hydrochloride  
Tablets, USP)**

**200 mg**

**60 Tablets**      **Rx only**

**UPSHER-SMITH**

**PHARMACIST: Dispense  
the Medication Guide  
provided separately  
to each patient.**

**Each tablet contains:** Amiodarone hydrochloride, USP 200 mg  
**Usual Adult Dosage:** See package insert for full prescribing information.  
**Note to authorized dispenser:** Obtain additional Medication Guides by  
visiting [www.upsheer-smith.com](http://www.upsheer-smith.com) or by calling 1-888-650-3789.

This package is child-resistant. 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].  
Keep tightly closed. Protect from light. Dispense in a tight,  
light-resistant container with a child-resistant closure.

**Keep out of reach of children.**

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**0245-0147-60**

**PRINCIPAL DISPLAY PANEL - 400 mg Tablet Bottle Label**

NDC 0245-1645-30

Pacerone<sup>®</sup>  
(Amiodarone Hydrochloride  
Tablets, USP)

400 mg

PHARMACIST: Dispense  
the Medication Guide  
provided separately  
to each patient.

30 Tablets

Rx only

UPSHER-SMITH

NDC 0245-1645-30

**Pacerone**<sup>®</sup>  
(Amiodarone Hydrochloride  
Tablets, USP)

**400 mg**

**PHARMACIST: Dispense  
the Medication Guide  
provided separately  
to each patient.**

30 Tablets

Rx only



**Each tablet contains:** Amiodarone hydrochloride, USP 400 mg

**Usual Adult Dosage:** See package insert for full prescribing information.

**Note to authorized dispenser:** Obtain additional Medication Guides by visiting [www.upsher-smith.com](http://www.upsher-smith.com) or by calling 1-888-650-3789.

This package is child-resistant. 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]. Keep tightly closed. Protect from light. Dispense in a tight, light-resistant container with a child-resistant closure.

**Keep out of reach of children.**

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Maple Grove, MN 55369

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114273-01 R0520



**PACERONE**

amiodarone hydrochloride tablet

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0245-0144
<b>Route of Administration</b>	ORAL		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
Amiodarone Hydrochloride (UNII: 976728SY6Z) (Amiodarone - UNII:N3RQ532IUT)	Amiodarone Hydrochloride	100 mg

**Inactive Ingredients**

Ingredient Name	Strength
lactose monohydrate (UNII: EWQ57Q8I5X)	
magnesium stearate (UNII: 70097M6I30)	
povidone, unspecified (UNII: FZ989GH94E)	
starch, corn (UNII: O8232NY3SJ)	
sodium starch glycolate type A potato (UNII: 5856J3G2A2)	
stearic acid (UNII: 4ELV7Z65AP)	
FD&C Yellow No. 6 (UNII: H77VEI93A8)	

**Product Characteristics**

<b>Color</b>	YELLOW (Peach)	<b>Score</b>	no score
<b>Shape</b>	ROUND	<b>Size</b>	7mm
<b>Flavor</b>		<b>Imprint Code</b>	P;U;S;144
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0245-0144-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/19/2011	
2	NDC:0245-0144-11	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/19/2011	
3	NDC:0245-0144-01	100 in 1 CARTON	01/19/2011	
3	NDC:0245-0144-89	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA075135	11/15/2010	

## PACERONE

amiodarone hydrochloride tablet

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0245-0147
Route of Administration	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Amiodarone Hydrochloride (UNII: 976728SY6Z) (Amiodarone - UNII:N3RQ532IUT)	Amiodarone Hydrochloride	200 mg

### Inactive Ingredients

Ingredient Name	Strength
lactose monohydrate (UNII: EWQ57Q8I5X)	
magnesium stearate (UNII: 70097M6I30)	
povidone, unspecified (UNII: FZ989GH94E)	
starch, corn (UNII: O8232NY3SJ)	
sodium starch glycolate type A potato (UNII: 5856J3G2A2)	
stearic acid (UNII: 4ELV7Z65AP)	
FD&C Yellow No. 6 (UNII: H77VEI93A8)	
FD&C Red No. 40 (UNII: WZB9127XOA)	

### Product Characteristics

Color	PINK	Score	2 pieces
Shape	ROUND	Size	11mm
Flavor		Imprint Code	P200;U;S;0147
Contains			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0245-0147-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	01/19/2011	
2	NDC:0245-0147-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	01/19/2011	
3	NDC:0245-0147-15	500 in 1 BOTTLE; Type 0: Not a Combination Product	01/19/2011	
4	NDC:0245-0147-01	100 in 1 CARTON	01/19/2011	
4	NDC:0245-0147-89	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA075135	11/15/2010	

## PACERONE

amiodarone hydrochloride tablet

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0245-1645
Route of Administration	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Amiodarone Hydrochloride (UNII: 976728SY6Z) (Amiodarone - UNII:N3RQ532IUT)	Amiodarone Hydrochloride	400 mg

### Inactive Ingredients

Ingredient Name	Strength
lactose monohydrate (UNII: EWQ57Q815X)	
magnesium stearate (UNII: 70097M61B0)	
povidone, unspecified (UNII: FZ989GH94E)	
starch, corn (UNII: O8232NY3SJ)	
sodium starch glycolate type A potato (UNII: 5856J3G2A2)	
stearic acid (UNII: 4ELV7Z65AP)	

### Product Characteristics

Color	WHITE (off-white)	Score	no score
Shape	ROUND	Size	13mm
Flavor		Imprint Code	P400;U;S;1645
Contains			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0245-1645-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	10/01/2020	
2	NDC:0245-1645-01	100 in 1 CARTON	10/01/2020	



2	NDC:0245-1645-89	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		
<b>Marketing Information</b>				
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>	
ANDA	ANDA075135	07/02/2020		

**Labeler** - Upsher-Smith Laboratories, LLC (079111820)

<b>Establishment</b>			
Name	Address	ID/FEI	Business Operations
Upsher-Smith Laboratories, LLC		079111820	MANUFACTURE(0245-0144, 0245-0147, 0245-1645) , PACK(0245-0144, 0245-0147, 0245-1645) , LABEL(0245-0144, 0245-0147, 0245-1645)

<b>Establishment</b>			
Name	Address	ID/FEI	Business Operations
Upsher-Smith Laboratories, LLC		047251004	ANALYSIS(0245-0144, 0245-0147, 0245-1645)

<b>Establishment</b>			
Name	Address	ID/FEI	Business Operations
Upsher-Smith Laboratories, LLC		809088862	MANUFACTURE(0245-0144, 0245-0147, 0245-1645)

Revised: 9/2020

Upsher-Smith Laboratories, LLC