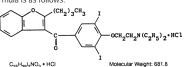
Cordarone (amiodarone HCI) TABLETS

DESCRIPTION

Cordarone is a member of a new class of antiarrhythmic drugs with predominantly Class III (Vaughan Williams' classification) effects, available for oral administration as ink, scored tablets containing 200 mg of amidation and an administrative ingredients present are colloidal silicon dioxide, lactose, magnesium stearate, povi-done, starch, and FD&C Red 40. Cordarone is a benzofuran derivative: 2-butyl-3-benzofuranyl 4-[2-(diethylamino)-ethoxy]-3,5-diiodophenyl ketone hydrochloride. It is not chemically related to any other available antiarrhythmic drug. The structural formula is as follows:



Amiodarone HCI 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

CLINICAL PHARMACOLOGY

Electrophysiology/Mechanisms of Action

In animals, Cordarone is effective in the prevention or suppression of experimentally-induced arrhythmias. The antiarrhythmic effect of Cordarone may be due to at least two major properties: 1) a prolongation of the myocardial cell-action potential duration and refractory period and 2) noncompetitive α - and β -adrenergic inhibition.

Cordarone prolongs the duration of the action potential of all cardiac fibers while caus ing minimal reduction of dV/dt (maximal upstroke velocity of the action potential). The refractory period is prolonged in all cardiac tissues. Cordarone 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 Cordarone as they are evidence of its pharmacological action, although Cordarone can cause marked sinus bradycardia or sinus arrest and heart block. On rare occasions, QT prolongation has been associated with worsening of arrhythmia (see "**WARNINGS**"). Hemodynamics

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

Pharmacokinetics

effect.

Following oral administration in man, Cordarone is slowly and variably absorbed. The bioavailability of Cordarone is approximately 50%, but has varied between 35 and 65% in various studies. Maximum plasma concentrations are attained 3 to 7 hours after a single dose. Despite this, the onset of action may occur in 2 to 3 days, but more com-monly takes 1 to 3 weeks, even with loading doses. 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 indi-vidual variability. Food increases the rate and extent of absorption of Cordarone. The effects of food upon the bioavailability of Cordarone 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 Carge 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 desethyl-amiodarone 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.

Cordarone 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 Cordarone, desethylamiodarone (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 ventricular class lifetication of the second and a second a s more closely with DFA accumulation over time than with amiodarone accumulation Amiodarone is eliminated primarily by hepatic metabolism and biliary excretion and there is negligible excretion of amiodarone or DEA in urine. Neither amiodarone nor DFA is dialyzable

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/hr/kg. Age, sex, renal disease, and hepatic disease (cirrhosis) do not have marked effects on the disposition of amiodarone or DEA. Renal impairment does not influence the pharmacokinetics of amiodarone. After a single dose of intravenous amiodarone in cirrhotic patients, significantly lower C_{max} and average concentration values are seen for DEA, but mean amiodarone levels are unchanged. Normal subjects over 65 years of age show lower clear-ances (about 100 ml/hr/kg) than younger subjects (about 150 ml/hr/kg) and an increase in tra from about 20 to 47 days. In patients with severe left ventricular dys-

function, the pharmacokinetics of amiodarone are not significantly altered but the ter minal disposition trac of DEA is prolonged. Although no dosage adjustment for patients with renal, hepatic, or cardiac abnormalities has been defined during chronic treatment with Cordarone, close clinical monitoring is prudent for elderly patients and those with severe left ventricular dysfunction.

Following single dose administration in 12 healthy subjects, Cordarone exhibited multicompartmental 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. Cordarone has been shown to have a biphasic elimination with an initial one-half 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 intersubject 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. Daily maintenance doses of Cordarone should be based on individual patient requirements (see "DOSAGE AND ADMINISTRATION").

Cordarone and its metabolite have a limited transplacental transfer of approximately 10 to 50%. The parent drug and its metabolite have been detected in breast milk Cordarone is highly protein-bound (approximately 96%).

Although electrophysiologic effects, such as prolongation of QTc, can be seen within hours after a parenteral dose of Cordarone, 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 Cordarone 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 at the time of recurrence

Pharmacodynamics

There is no well-established relationship of plasma concentration to 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. Within individuals dose reductions and ensuing decreased plasma concentrations can result in loss of arrhythmia control. Plasma-concentration measurements can be used to identify patients whose levels are unumule used where the concentration for an equipment. 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. Some observa-tions have suggested a plasma concentration, dose, or dose/duration relationship for side effects such as pulmonary fibrosis, liver-enzyme elevations, corneal deposits and facial pigmentation, peripheral neuropathy, gastrointestinal and central nervous system effects

Monitoring Effectiveness

Predicting the effectiveness of any antiarrhythmic agent in long-term prevention of recurrent ventricular tachycardia and ventricular fibrillation is difficult and controversial, with highly qualified investigators recommending use of ambulatory monitoring, programmed electrical stimulation with various stimulation regimens, or a combination of these, to effectiveness, but there is a reasonable consensus on many aspects of how best to assess effectiveness, but there is a reasonable consensus on some aspects:

 If a patient with a history of cardiac arrest does not manifest a hemodynamically unstable arrhythmia during electrocardiographic monitoring prior to treatment, assess-ment of the effectiveness of Cordarone requires some provocative approach, either exercise or programmed electrical stimulation (PES).

2. Whether provocation is also needed in patients who do manifest their life-threaten-ing arrhythmia spontaneously is not settled, but there are reasons to consider PES or other provocation in such patients. In the fraction of patients whose PES-inducible arrhythmia can be made noninducible by Cordarone (a fraction that has varied widely in various series from less than 10% to almost 40%, perhaps due to different stimulation criteria), the prognosis has been almost uniformly excellent, with very low recurrence (anticipate to be predicting a cudde a dotth) rate. More contraversial is the meaning of (ventricular tachycardia or sudden death) rates. More controversial is the meaning of ntinued inducibility. There has been an impression that continued inducibility in Cordarone patients may not foretell a poor prognosis but, in fact, many observers have found greater recurrence rates in patients who remain inducible than in those who do not. A number of criteria have been proposed, however, for identifying patients who remain inducible but who seem likely nonetheless to do well on Cordarone. These crite ria include increased difficulty of induction (more stimuli or more rapid stimuli), which has been reported to predict a lower rate of recurrence, and ability to tolerate the induced ventricular tachycardia without severe symptoms, a finding that has been reported to correlate with better survival but not with lower recurrence rates. While these criteria require confirmation and further study in general, easier inducibility or poorer tolerance of the induced arrhythmia should suggest consideration of a need to revise treatment.

Several predictors of success not based on PES have also been suggested, including complete elimination of all nonsustained ventricular tachycardia on ambulatory monitoring and very low premature ventricular-beat rates (less than 1 VPB/1,000 normal beats). While these issues remain unsettled for Cordarone, as for other agents, the prescriber of Cordarone should have access to (direct or through referral), and familiarity with, the full range of evaluatory procedures used in the care of patients with life-threatening

arrhythmias It is difficult to describe the effectiveness rates of Cordarone, as these depend on the spe cific arrhythmia treated, the success criteria used, the underlying cardiac disease of the patient, the number of drugs tried before resorting to Cordarone, the duration of follow-up, the dose of Cordarone, the use of additional antiarrhythmic agents, and many other factors. As Cordarone has been studied principally in patients with refractory life-threat-ening ventricular arrhythmias, in whom drug therapy must be selected on the basis of response and cannot be assigned arbitrarily, randomized comparisons with other agents or placebo have not been possible. Reports of series of treated patients with a history of or placebo have not been possible. Reports of series of treated patients with a history of cardiac arrest and mean follow-up of one year or more have given mortallity (due to arrhythmia) rates that were highly variable, ranging from less than 5% to over 30%, with most series in the range of 10 to 15%. Overall arrhythmia-recurrence rates (fatal and nonfatal) also were highly variable (and, as noted above, depended on response to PES and other measures), and depend on whether patients who do not seem to respond initially are included. In most cases, considering only patients who seemed to respond well bough to be placed on long-term treatment, recurrence rates have ranged from 20 to 0% in series with a mean follow-up of a year or more.

INDICATIONS AND USAGE

Because of its life-threatening side effects and the substantial management difficulties associated with its use (see "WARNINGS" below), Cordarone is indicated only for the treatment of the following documented, life-threatening recurrent ventricular arrhythmias when these have not responded to documented adequate doses of other available antiarrhthymics or when alternative agents could not be tolerated. Recurrent ventricular fibrillation.

Recurrent hemodynamically unstable ventricular tachycardia

As is the case for other antiarrhythmic agents, there is no evidence from controlled trials that the use of Cordarone (amiodarone HCI) Tablets favorably affects survival. Cordarone should be used only by physicians familiar with and with access to (directly or through referral) the use of all available modalities for treating recurrent life-threatening vertricular arrhythmias, and who have access to appropriate monitoring facili-ties, including in-hospital and ambulatory continuous electrocardiographic monitoring and electrophysiologic techniques. Because of the life-threatening nature of the arrhythmias treated, potential interactions with prior therapy, and potential exacerba-tion of the arrhythmia, initiation of therapy with Cordarone should be carried out in the hospital.

CONTRAINDICATIONS

Cordarone is contraindicated in severe sinus-node dysfunction, causing marked sinus bradycardia; second- and third-degree atrioventricular block; and when episodes of brady cardia have caused syncope (except when used in conjunction with a pacemaker) Cordarone is contraindicated in patients with a known hypersensitivity to the drug.

WARNINGS

Cordarone is intended for use only in patients with the indicated life-threatening arrhythmias because its use is accompanied by substantial toxicity. Cordarone has several potentially fatal toxicities, the most important of which is pulmonary toxicity (hypersensitivity pneumonitis or interstitial/alveolar pneumoni-tis) that has resulted in clinically manifest disease at rates as high as 10 to 17% in some series of patients with ventricular arrhythmias given doses around 400 mg/day, and as abnormal diffusion capacity without symptoms in a much higher percentage of patients. Pul-monary toxicity has been fatal about 10% of the time. Liver injury is common with Cordarone, but is usually mild and evidenced only by abnormal liver enzymes. Overl liver disease can occur, however, and has been fatal in a few cases. Like other antiarrhythmics. Cordarone can exacerbate the arrhythmia, e.g. by making the arrhythmia less well tolerated or more difficult to reverse. This has occurred in 2 to 5% of patients in various series, and significant heart block or sinus bradvcardia has been seen in 2 to 5%. All of these events should be manage able in the proper clinical setting in most cases. Although the frequency of such proarrhythmic events does not appear greater with Cordarone than with many othe agents used in this population, the effects are prolonged when they occur. Even in patients at high risk of arrhythmic death, in whom the toxicity of Cordarone is an acceptable risk, Cordarone poses major management problems that could be life-threatening in a population at risk of sudden death, so that every effort should be made to utilize alternative agents first. The difficulty of using Cordarone effectively and safely itself poses a significant risk to patients. Patients with the indicated arrhythmias must be hospitalized while the

loading dose of Cordarone is given, and a response generally requires at least one week, usually two or more. Because absorption and elimination are variable, maintenance-dose selection is difficult, and it is not unusual to require dosage decrease or discontinuation of treatment. In a retrospective survey of 192 patients decrease or discontinuation of treatment. In a retrospective survey of 192 patients with ventricular tachyarrhythmias, 84 required dose reduction and 18 required at least temporary discontinuation because of adverse effects, and several series have reported 15 to 20% overall frequencies of discontinuation due to adverse reactions. The time at which a previously controlled life-threatening arrhythmia will recur after discontinuation or dose adjustment is unpredictable, ranging from weeks to months. The patient is obviously at great risk during this time and may need prolonged hospitalization. Attempts to substitute other antiarrhythmic agents when Cordarone must be stopped will be made difficult by the gradually, but unpre-dictably, changing amiodarone body burden. A similar problem exists when cordarone is not effective: it still noses the risk of an interaction with whatever sub-Cordarone is not effective: it still poses the risk of an interaction with whatever subsequent treatment is tried.

Mortality

Moriality In the National Heart, Lung and Blood Institute's Cardiac Arrhythmia Suppression Trial (CAST), a long-term, multi-centered, randomized, double-blind study in patients with asymptomatic non-life-threatening ventricular arrhythmias who had had myocardial infarctions more than six days but less than two years previously, an excessive mortality or non-fatal cardiac arrest rate was seen in patients treated with encainide or flecainide (56/730) compared with that seen in patients assigned to matched placebo-treated groups (22/725). The average duration of treatment with encainide or flecainide in this study was ten months.

Cordarone therapy was evaluated in two multi-centered, randomized, double-blind, placebo-controlled trials involving 1202 (Canadian Amiodarone Myocardial Infarction Arrhythmia Trial; CAMIAT) and 1486 (European Myocardial Infarction Amiodarone Trial; EMIAT) post-MI patients followed for up to 2 years. Patients in CAMIAT qualified with ventricular arrhythmias, and those randomized to amiodarone received weight- and response-adjusted doses of 200 to 400 mg/day. Patients in EMIAT qualified with ejection fraction <40%, and those randomized to amiodarone received fixed doses of 200 mg/day. Both studies had weeks-long loading dose schedules. Intent-to-treat all-cause mortality results were as follows:

			-			
	Placebo		Amiodarone		Relative Risk	
	N	Deaths	N	Deaths		95%CI
EMIAT	743	102	743	103	0.99	0.76-1.31
CAMIAT	596	68	606	57	0.88	0.58-1.16

These data are consistent with the results of a pooled analysis of smaller, controlled studies involving patients with structural heart disease (including myocardial infarction).

Pulmonary Toxicity

Pulmonary loxicity Cordarone (amiodarone HCI) Tablets may cause a clinical syndrome of cough and pro-gressive dyspnea accompanied by functional, radiographic, gallium-scan, and patho-logical data consistent with pulmonary toxicity, the frequency of which varies from 2 to 7% in most published reports, but is as high as 10 to 17% in some reports. Therefore, when Cordarone therapy is initiated, a baseline chest X-ray and pulmonary-function tests, including diffusion capacity, should be performed. The patient should return for a history, physical exam, and chest X-ray every 3 to 6 months.

Preexisting pulmonary disease does not appear to increase the risk of developing pulmonary toxicity; however, these patients have a poorer prognosis if pulmonary toxicity does develop.

Pulmonary toxicity secondary to Cordarone seems to result from either indirect or direct toxicity as represented by hypersensitivity pneumonitis or interstitial/alveola pneumonitis, respectively.

Hypersensitivity pneumonitis usually appears earlier in the course of therapy, and rechallenging these patients with Cordarone results in a more rapid recurrence of greater severity. Bronchoalveolar lavage is the procedure of choice to confirm this diag-nosis, which can be made when a T suppressor/cytotoxic (CD8-positive) lymphocyto-sis is noted. Steroid therapy should be instituted and Cordarone therapy discontinued in these patients

Interstitial/alveolar pneumonitis may result from the release of oxygen radicals and/or phospholipidosis and is characterized by findings of diffuse alveolar damage, interstitial pneumonitis or fibrosis in lung biopsy specimens. Phospholipidosis (foamy cells, foamy macrophages), due to inhibition of phospholipase, will be present in most cases of Cordarone-induced pullmonary toxicity, however, these changes also are present in approximately 50% of all patients on Cordarone therapy. These cells should be used as markers of therapy, but not as evidence of toxicity. A diagnosis of Cordarone-induced interstitial/alveolar pneumonitis should lead, at a minimum, to dose reduction or, preferably, to withdrawal of the Cordarone to establish reversibility, especially if other acceptable antiarrhythmic therapies are available. Where these measures have been instituted, a reduction in symptoms of amiddarone-induced pulmonary toxicity was usually noted within the first week, and a clinical improvement was greatest in the first two to three weeks. Chest X-ray changes usually resolve within two to four months According to some experts, steroids may prove beneficial. Prednisone in doses of 40 to 60 mg/day or equivalent doses of other steroids have been given and tapered over the course of several weeks depending upon the condition of the patient. In some cases rechallenge with Cordarone at a lower dose has not resulted in return of toxicity Recent reports suggest that the use of lower loading and maintenance doses of Cordarone are associated with a decreased incidence of Cordarone-induced pulmonary toxicity

In a patient receiving Cordarone, any new respiratory symptoms should suggest the possibility of pulmonary toxicity, and the history, physical exam, chest X-ray, and pul-monary-function tests (with diffusion capacity) should be repeated and evaluated. A 15% decrease in diffusion capacity has a high sensitivity but only a moderate specificity for pulmonary toxicity; as the decrease in diffusion capacity approaches 30%, the sensitivity decreases but the specificity increases. A gallium-scan also may be performed as part of the diagnostic workup.

Falilities, secondary to pulmonary toxicity, have occurred in approximately 10% of cases. However, in patients with life-threatening arrhythmias, discontinuation of Cordarone therapy due to suspected drug-induced pulmonary toxicity should be under-taken with caution, as the most common cause of death in these patients is sudden cardiac death. Therefore, every effort should be made to rule out other causes of respiratory impairment (i.e., congestive heart failure with Swan-Ganz catheterization if nec-essary, respiratory infection, pulmonary embolism, malignancy, etc.) before discontin-uing Cordarone in these patients. In addition, bron-

choalveolar lavage, transbronchial lung biopsy and/or open lung biopsy may be necessary to confirm the diag-nosis, especially in those cases where no acceptable alternative therapy is available

If a diagnosis of Cordarone-induced hypersensitivity pneumonitis is made, Cordarone should be discontinued, and treatment with steroids should be instituted. If a diagnosis of Cordarone-induced interstitial/alveolar pneumonitis is made, steroid therapy should be instituted and, preferably, Cordarone discontinued or, at a minimum, reduced in dosage. Some cases of Cordarone-induced interstitial/alveolar pneumonitis may resolve following a reduction in Cordarone dosage in conjunction with the administration of steroids. In some patients, rechallenge at a lower dose has not resulted in return of interstitial/alveolar pneumonitis; however, in some patients (perhaps because of severe alveolar damage) the pulmonary lesions have not been reversible

Worsened Arrhythmia

Cordarone, like other antiar-rhythmics, can cause serious exacerbation of the presenting arrhythmia, a risk that may be enhanced by the presence of concomitant antiarrhythmics Exacerbation has been report ed in about 2 to 5% in most series, and has included new ventricular fibrillation, inces sant ventricular tachycardia, increased resistance to cardioversion, and polymorphic ventricular tachycardia associated with QTc prolongation (Torsade de Pointes). In addition, Cordarone has caused symptomatic bradycardia or sinus arrest with suppression of escape foci in 2 to 4% of patients. The need to co-administer amiodarone with any other drug known to prolong the QTc interval must be based on a careful assessment of the potential risks and benefits of

doing so for each patient. A careful assessment of the

potential risks and benefits of

administering Cordarone must be made in patients with thy-

Liver Injury Elevations of hepatic enzyme levels are seen frequently in

increase exceeds three times normal, or doubles in a patient with an elevated base

Cordarone or dosage reduc-tion should be considered. In

line, discontinuation of

natients exposed to Cordarone and in most cases are asymptomatic. If the

roid dysfunction due to the possibility of arrhythmia breakthrough or exacerbation of arrhythmia in these

patients

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a few cases in which biopsy has been done, the histology has resembled that of alcoholic hepatitis or cirrhosis. Hepatic failure has been a rare cause of death in patients treated with Cordarone Loss of Vision

Cases of optic neuropathy and/or optic neuritis, usually resulting in visual impair-ment, have been reported in patients treated with amio-

darone. In some cases, visual

impairment has progressed to permanent blindness. Optic neuropathy and/or neuritis may occur at any time following initiation of therapy. A causal relationship to the drug has not been clearly estab-lished. If symptoms of visual impairment appear, such as changes in visual acuity and decreases in peripheral vision, prompt ophthalmic examination is recommended. Appearance of optic neuropathy and/or neuritis calls for re-evaluation of Cordarone thera-py. The risks and complications of antiarrhythmic therapy with Cordarone must be weighed against its benefits in patients whose lives are threatened by cardiac arrhyth-mias. Regular opthhalmic examination, including fundoscopy and silt-lamp examination, is recommended during administration of Cordarone. (See "**ADVERSE REACTIONS**").

Neonatal Hypo- or Hyperthyroidism Cordarone can cause fetal harm when administered to a pregnant woman. Although Cordarone use during pregnancy is uncommon, there have been a small number of pub-lished reports of congenital goiter/hypothyroidism and hyperthyroidism. If Cordarone is used during pregnancy, or if the patient becomes pregnant while taking Cordarone, the patient should be apprised of the potential hazard to the fetus.

In general, Cordarone (amiodarone HCI) Tablets should be used during pregnancy only if the potential benefit to the mother justifies the unknown risk to the fetus

In pregnant rats and rabbits, amiodarone HCI in doses of 25 mg/kg/day (approximately In pregnant rats and rabbits, amiodarone HC in doses 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 enimals. 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 reduced; at 200 mg/kg/day, there 0.9 ± 6 and 2.5 times the maximum recommended d doses in the rat are 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 50 kg patient (doses compared on a body surface area basis)

PRECAUTIONS Impairment of Vision

Optic Neuropathy and/or Neuritis

Cases of optic neuropathy and optic neuritis have been reported (see "WARNINGS"). Corneal Microdeposits

Corneal microdeposits appear in the majority of adults treated with Cordarone. They are usually discerbible 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 RFACTIONS")

Chronic administration of oral amiodarone in rare instances may lead to the development of peripheral neuropathy that may resolve when amiodarone is discontinued, but this resolution has been slow and incomplete.

Photosensitivity

Cordarone has induced photosensitization in about 10% of patients; some protection may be afforded by the use of 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, and may be related to cumulative dose and duration of therapy

Thyroid Abnormalities

Cordarone inhibits peripheral conversion of thyroxine (T4) to triiodothyronine (T3) and may cause increased thyroxine levels, decreased T₃ levels, and increased lev els of inactive reverse T_3 (rT₃) in clinically euthyroid patients. It is also a potential source of large amounts of inorganic iodine. Because of its release of inorganic iodine, or perhaps for other reasons, Cordarone can cause either hypothyroidism or hyper-thyroidism. Thyroid function should be monitored prior to treatment and peri-odically thereafter, particu-larly in elderly patients, and in any patient with a history of thyroid nodules, goiter, or other thyroid dysfunction. Because of the slow elimination of Cordarone and its metabolites, high plasma iodide levels Itered thyroid function, and abnormal thyroid-function tests may persist for several weeks or even months following Cordarone withdrawal. Hypothyroidism has been reported in 2 to 4% of ents in most series, but in 8 to 10% in some series. This condition may be identified by relevant clinical symptoms and particularly by elevated serum TSH lev els. In some clinically hypothyroid amiodaronetreated patients free thyroxine index values may be normal. Hypothyroidism is best managed by Cordarone dose reduction and/or thyroid hormone supplement However, therapy must be individualized, and it may be necessary to discontinue Cordarone[®] (amiodarone HCI) Tablets in some patients. Hyperthyroidism occurs in about 2% of patients receiving Cordarone, but the incidence may be higher among patients with prior inadequate dietary iodine intake. Cordarone-induced hyperthyroidism usually poses a greater hazard to

the patient than hypothyroidism because of the possibility of arrhythmia breakthrough The patient than hypothyloitism because of the possibility of almylothia breakthough or aggravation, which may result in death. In fact, IF ANY NEW SIGNS OF ARRHYTH-MIA APPEAR, THE POSSIBILITY OF HYPERTHYROIDISM SHOULD BE CONSIDERED. Hyperthyroidism is best identified by relevant clinical symptoms and signs, accompa-nied usually by abnormally elevated levels of serum T₃ RIA, and further elevations of serum T₄, and a subnormal serum T5H level (using a sufficiently sensitive T5H assay). The finding of a flat T5H response to TRH is confirmatory of hyperthyroidism and may be courbed nearly used accord Size archytemic breaktbreak provide mourcompany. be sought in equivocal cases. Since arrhythmia breakthroughs may accompany Cordarone-induced hyperthyroidism, aggressive medical treatment is indicated, includ-ing, if possible, dose reduction or withdrawal of Cordarone. The institution of antithyrold drugs, ß-adrenergic blockers and/or temporary corticosteroid therapy may be nec-essary. The action of antithyroid drugs may be especially 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. Experience with thyroid surgery in this setting is extremely limited, and this form of therapy runs the theoretical risk of inducing thyroid storm. Cordarone-induced hyper-thyroidism may be followed by a transient period of hypothyroidism.

Surgery Volatile Anesthetic Agents: Close perioperative monitoring is recommended in patients undergoing general anesthesia who are on amiodarone therapy as they may be more sensitive to the myocardial depressant and conduction effects of halogenated inhalational anesthetics

Hypotension Postbypass: Rare occurrences of hypotension upon discontinuation of cardiopulmonary bypass during open-heart surgery in patients receiving Cordarone have been reported. The relationship of this event to Cordarone therapy is unknown Adult Respiratory Distress Syndrome (ARDS): Postoperatively, occurrences of ARDS have been reported in patients receiving Cordanone therapy who have undergone either cardiac or noncardiac surgery. Although patients usually respond well to vigorous res-piratory therapy, in rare instances the outcome has been fatal. Until further studies have been performed, it is recommended that FiO₂ and the determinants of oxygen delivery to the tissues (e.g., SaO₂, PaO₂) be closely monitored in patients on Cordarone

Laboratory Tests

Elevations in liver enzymes (SGOT and SGPT) can occur. Liver enzymes in patients on relatively high maintenance doses should be monitored on a regular basis. Persistent significant elevations in the liver enzymes or hepatomegaly should alert the physician to consider reducing the maintenance dose of Cordarone or discontinuing therapy. Cordarone alters the results of thyroid-function tests, causing an increase in serum T4 and serum reverse T3, and a decline in serum T3 levels. Despite these biochemical changes, most patients remain clinically euthyroid.

Drug Interactions

Amiodarone is metabolized to desethylamiodarone by the cytochrome P450 (CYP450) enzyme group, specifically cytochrome P450 3A4 (CYP3A4). This isoenzyme is present in both the liver and intestines (see "CLINICAL PHARMACOLOGY, Pharmacokinetics and Metabolism^{*}). Amiodarone is also known to be an inhibitor of CYP3A4. Therefore, amiodarone has the **potential** for interactions with drugs or substances that may be substrates, inhibitors or inducers of CYP3A4. While only a limited number of in vivo drug-drug interactions with amiodarone have been reported, the potential for other interactions should be anticipated. This is especially important for drugs associated with serious toxicity, such as other antiarrhythmics. If such drugs are needed, their dose should be reassessed and, where appropriate, plasma concentration measured. In view of the long and variable half-life of amiodarone, potential for drug interactions exists not only with concomitant medication but also with drugs administered after discontinuation of amiodarone

Since amiodarone is a substrate for CYP3A4, drugs/substances that inhibit CYP3A4 may decrease the metabolism and increase serum concentrations of amiodaron with the potential for toxic effects. Reported examples of this interaction include the following:

Protease Inhibitors:

Protease inhibitors are known to inhibit CYP3A4 to varying degrees. Inhibition of CYP3A4 by **indinavir** has been reported to result in increased serum concentrations of amiodarone. Monitoring for amiodarone toxicity and serial measurement of amiodarone serum concentration during concomitant protease inhibitor therapy should be considered

Histamine H₂ antagonists: Cimetidine inhibits CYP3A4 and can increase serum amiodarone levels.

Other substances: Grapefruit juice inhibits CYP3A4-mediated metabolism of oral amiodarone in the intestinal mucosa, resulting in increased plasma levels of amiodarone; therefore, grape-fruit juice should not be taken during treatment with oral amiodarone (see "DOSAGE"

AND ADMINISTRATION") Amodarone may suppress certain CYP450 enzymes (enzyme inhibition). This can result in unexpectedly high plasma levels of other drugs which are metabolized by those CYP450 enzymes and may lead to toxic effects. Reported examples of this interaction include the following:

Immunosuppressives:

Cvclosporine (CYP3A4 substrate) administered in combination with oral amiodarone has been reported to produce persistently elevated plasma concentrations of cyclosporine resulting in elevated creatinine, despite reduction in dose of cyclosporine Cardiovasculars:

Cardiac glycosides: In patients receiving digoxin therapy, administration of oral amiodarone regularly results in an increase in the serum digoxin concentration that may reach toxic levels with resultant clinical toxicity. Amiodarone taken concomitantly with digoxin increases the serum digoxin concentration by 70% after one day. On initiation of oral amiodarone, the need for digitalis therapy should be reviewed and the dose reduced by approximately 50% or discontinued. If digitalis treatment is continued, serum levels should be closely monitored and patients observed for clinical evidence of toxicity. These precautions probably should apply to digitoxin administration as well.

Antiarrhythmics: Other antiarrhythmic drugs, such as quinidine, procainamide, disopyramide, and

phenytoin, have been used concurrently with oral amiodarone. There have been case reports of increased steady-state levels of quinidine, procainamide, and phenytoin during concomitant therapy with amiodarone. Phenytoin decreases serum amiodarone levels. Amiodarone taken concomitantly with quinidine increases guinidine 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. Quinidine and procainamide doses should be reduced by one-third when either is administered with amiodarone. Plasma levels of **flecainide** have been reported to increase in the presence of oral amiodarone; because of this, the dosage of flecainide should be adjusted when these drugs are administered concomitantly. added antiarrhythmic drug should be initiated at a lower than usual dose with careful monitoring.

Combination of amiodarone with other antiarrhythmic therapy should be reserved for to a single agent or incompletely responsive to amiodarone. During transfer to amiodarone the dose levels of previously administered agents should be reduced by 30 to 50% several days after the addition of amiodarone, when arrhythmia suppression should be beginning. The continued need for the other antiarrhythmic agent should be reviewed after the effects of amiodarone have been established, and discontinuation ordinarily should be attempted. If the treatment is continued, these patients should be particularly carefully monitored for adverse effects, especially conduction disturbances and exacerbation of tachyarrhythmias, as amiodarone is continued. In amiodaronetreated patients who require additional antiarrhythmic therapy, the initial dose of such agents should be approximately half of the usual recommended dose

Antihypertensives. Amiodarone should be used with caution in patients receiving **B-receptor blocking**

agents (e.g., propanolol, a CYP3A4 inhibitor) or calcium channel antagonists (e.g., verapamil, a CYP3A4 substrate, and diltiazem, a CYP3A4 inhibitor) because of the pos-sible potentiation of bradycardia, sinus arrest, and AV block; if necessary, amiodarone can continue to be used after insertion of a pacemaker in patients with severe bradycardia or sinus arrest

Anticoagulants

Potentiation of warfarin-type (CYP2C9 and CYP3A4 substrate) anticoagulant response is almost always seen in patients receiving amiodarone and can result in serious o fatal bleeding. Since the concomitant administration of warfarin with amiodarone increases the prothrombin time by 100% after 3 to 4 days, the dose of the anticoagu lant should be reduced by one-third to one-half, and prothrombin times should be itored closely.

Some drugs/substances are known to accelerate the metabolism of amiodarone by stimulating the synthesis of CYP3A4 (enzyme induction). This may lead to low amiodarone serum levels and potential decrease in efficacy. Reported examples of this teraction include the following:

Antibiotics:

Rifampin is a potent inducer of CYP3A4. Administration of rifampin concomitantly with amiodarone has been shown to result in decreases in serum concentrations of amiodarone and desethylamiodarone.

Other substances, including herbal preparations:

St. John's Wort (Hypericum perforatum) induces CYP3A4. Since amiodarone is a sub-strate for CYP3A4, there is the potential that the use of St. John's Wort in patients receiving amiodarone could result in reduced amiodarone levels.

Other reported interactions with amiodarone:

Fetanyl (CYP3A4 substrate) in combination with amiodarone may cause hypotension, bradycardia, decreased cardiac output.

Sinus bradycardia has been reported with oral amiodarone in combination with **lido-caine** (CYP3A4 substrate) given for local anesthesia. Seizure, associated with increased lidocaine concentrations, has been reported with concomitant administration of intravenous amiodarone.

Dextromethorphan is a substrate for both CYP2D6 and CYP3A4. Amiodarone inhibits CYP2D6.

Cholestyramine increases enterohepatic elimination of amiodarone and may reduce serum levels and t_{1/2}.

Disopyramide increases QT prolongation which could cause arrhythmia. Hemodynamic and electrophysiologic interactions have also been observed after con-comitant administration with **propranolol**, **diltiazem**, and **verapamil**.

Volatile Anesthetic Agents (See "PRECAUTIONS, Surgery, Volatile Anesthetic Agents.") In addition to the interactions noted above, chronic (> 2 weeks) oral Cordarone administration impairs metabolism of phenytoin, dextromethorphan, and methotrexate

Electrolyte Disturbances

Since antiarrhythmic drugs may be ineffective or may be arrhythmogenic in patients with hypokalemia, any potassium or magnesium deficiency should be corrected before instituting and during Cordarone therapy. Use caution when coadministering Cordarone with drugs which may induce hypokalemia and/or hypomagnesemia.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Amiodarone HCI 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 even at the lowest dose level tested, i.e., 5 mg/kg/day (approximately 0.08 times the maximum recommended human main tenance dose*)

Mutagenicity studies (Ames, micronucleus, and lysogenic tests) with Cordarone were negatīv

In a study in which amiodarone HCI was administered to male and female rats, beginning 9 weeks prior to maling, reduced fertility was observed at a dose level of 90 mg/kg/day (approximately 1.4 times the maximum recommended human maintenance dose*). 600 mg in a 50 kg patient (dose compared on a body surface area basis)

Pregnancy: Pregnancy Category D See "WARNINGS, Neonatal Hypo- or Hyperthyroidism."

Labor and Delivery It is not known whether the use of Cordarone during labor or delivery has any immediate or delayed adverse effects. Preclinical studies in rodents have not shown any effect of Cordarone on the duration of gestation or on parturition.

Nursing Mothers

Cordarone is excreted in human milk, suggesting that breast-feeding could expose the nursing infant to a significant dose of the drug. Nursing offspring of lactating rats administered Cordarone have been shown to be less viable and have reduced bodyweight gains. Therefore, when Cordarone therapy is indicated, the mother should be advised to discontinue nursing.

Pediatric Use

The safety and effectiveness of Cordarone (amiodarone HCI) Tablets in pediatric patients have not been established. Geriatric Use

Clinical studies of Cordarone Tablets did not include sufficient numbers of subjects aged 55 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. 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.

ADVERSE REACTIONS

Adverse reactions have been very common in virtually all series of patients treated with Cordarone for ventricular arrhythmias with relatively large doses of drug (400 mg/day and above), occurring in about three-fourths of all patients and causing discontinuation in 7 to 18%. The most serious reactions are pulmonary toxicity, exacerbation of arrhythmia, and rare serious liver injury (see "WARNINGS"), but other adverse effects

constitute important problems. They are often reversible with dose reduction or cessa-tion of Cordarone treatment. Most of the adverse effects appear to become more fre-quent with continued treatment beyond six months, although rates appear to remain relatively constant beyond one year. The time and dose relationships of adverse effects are under continued study. Neurologic problems are extremely common occurring in 20 to 40% of patients and

including malaise and fatigue, tremor and involuntary movements, poor coordination and gait, and peripheral neuropathy; they are rarely a reason to stop therapy and may respond to dose reductions or discontinuation (see "**PRECAUTIONS**"). Gastrointestinal complaints, most commonly nausea, vomiting, constipation, and

anorexia, occur in about 25% of patients but rarely require discontinuation of drug These commonly occur during high-dose administration (i.e., loading dose) and usual ly respond to dose reduction or divided doses.

Ophthalmic abnormalities including optic neuropathy and/or optic neuritis, in some cases progressing to permanent blindness, papilledema, corneal degeneration, photosensitivity, eye discomfort, scotoma, lens opacities, and macular degeneration have been reported. (See "WARNINGS.")

Asymptomatic corneal microdeposits are present in virtually all adult patients who have been on drug for more than 6 months. Some patients develop eye symptoms of halos photophobia, and dry eyes. Vision is rarely affected and drug discontinuation is rarely needed.

Dermatological adverse reactions occur in about 15% of patients, with photosensitivity being most common (about 10%). Sunscreen and protection from sun exposure may be helpful, and drug discontinuation is not usually necessary. Prolonged exposure to Cordarone occasionally results in a blue-gray pigmentation. This is slowly and occasionally incompletely reversible on discontinuation of drug but is of cosmetic importance only

Cardiovascular adverse reactions, other than exacerbation of the arrhythmias, include the uncommon occurrence of congestive heart failure (3%) and bradycardia. Bradycardia usually responds to dosage reduction but may require a pacemaker for control. CHF rarely requires drug discontinuation. Cardiac conduction abnormalities

occur infrequently and are reversible on discontinuation of drug. 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).

The following side effects were each reported in 10 to 33% of patients: Gastrointestinal: Nausea and vomiting. The following side effects were each reported in 4 to 9% of patients:

Dermatologic: Solar dermatitis/photosensitivity. Neurologic: Malaise and fatigue, tremor/abnormal involuntary movements, lack of coordination, abnormal gait/ataxia, dizziness, paresthesias. Gastrointestinal: Constipation, anorexia.

Ophthalmologic: Visual disturbances. Hepatic: Abnormal liver-function tests

Respiratory: Pulmonary inflammation or fibrosis. The following side effects were each reported in 1 to 3% of patients:

Thyroid: Hypothyroidism, hyperthyroidism. Neurologic: Decreased libido, insomnia, headache, sleep disturbances

Cardiovascular: Congestive heart failure, cardiac arrhythmias, SA node dysfunction. Gastrointestinal: Abdominal pain. Hepatic: Nonspecific hepatic disorders.

Other: Flushing, abnormal taste and smell, edema, abnormal salivation, coagulation

abnormalities The following side effects were each reported in less than 1% of patients: sion and car

coloration, rash, spontaneous ecchymosis, alopecia, hyp diac conduction abnormalities

In surveys of almost 5,000 patients treated in open U.S. studies and in published reports of treatment with Cordarone, the adverse reactions most frequently requiring discontinuation of Cordarone 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, solar dermatitis, blue skin discoloration, hyperthyroidism, and hypothyroidisn

Postmarketing Reports

In postmarketing surveillance, sinus arrest, hepatitis, cholestatic hepatitis, cirrhosis, epididymitis, impotence, vasculitis, pseudotumor cerebri, thrombocytopenia, angioedema, bronchiolitis obliterans organizing pneumonia (possibly fatal), bronchospasm, pleuritis, pancreatitis, toxic epidermal necrolysis, myopathy, hemolytic anemia, aplastic anemia, pancytopenia, neutropenia, erythema multiforme, Stevens-Johnson syndrome, and exfoliative dermatitis, also have been reported in patients receiving Cordarone.

OVERDOSAGE

There have been cases, some fatal, of Cordarone overdose.

In addition to general supportive measures, the patient's cardiac rhythm and blood pressure should be monitored, and if bradycardia ensues, a B-adrenergic agonist or a pacemaker may be used. Hypotension with inadequate tissue perfusion should be treated with positive inotropic and/or vasopressor agents. Neither Cordarone nor its metabolite is dialyzable

The acute oral LD_{50} of amiodarone HCI in mice and rats is greater than 3,000 mg/kg DOSAGE AND ADMINISTRATION

BECAUSE OF THE UNIOUE PHARMACOKINETIC PROPERTIES, DIFFICULT DOSING SCHEDULE, AND SEVERITY OF THE SIDE EFFECTS IF PATIENTS ARE IMPROPERLY MONITORED, CORDARONE SHOULD BE ADMINISTERED ONLY BY PHYSICIANS WHO ARE EXPERIENCED IN THE TREATMENT OF LIFE-THREATENING ARRHYTHMIAS WHO ARE THOROUGHLY FAMILIAR WITH THE RISKS AND BENEFITS OF CORDARONE THERAPY, AND WHO HAVE ACCESS TO LABORATORY FACILITIES CAPABLE OF ADE-OUATELY MONITORING THE FEFECTIVENESS AND SIDE FEFECTS OF TREATMENT. In order to insure that an antiarrhythmic effect will be observed without waiting several months, loading does are required. A uniform, optimal dosage schedule for adminis-tration of Cordarone has not been determined. Because of the food effect on absorp-tion, Cordarone should be administered consistently with regard to meals (see "CLIM-CAL PHARMACOLOGY"). Individual patient titration is suggested according to the following guidelines

For life-threatening ventricular arrhythmias, such as ventricular fibrillation or hemody*namically unstable ventricular tachycardia:* Close monitoring of the patients is indicated during the loading phase, particularly until risk of recurrent ventricular tachycardia or fibrillation has abated. Because of the serious nature of the arrhythmia and the lack of predictable time course of effect, loading should be performed in a hospital setting Loading doses of 800 to 1,600 mg/day are required for 1 to 3 weeks (occasionally

longer) until initial therapeutic response occurs. (Administration of Cordarone in divided doses with meals is suggested for total daily doses of 1,000 mg or higher, or when gastrointestinal intolerance occurs.) If side effects become excessive, the dose should be reduced. Flimination of recurrence of ventricular fibrillation and tachycardia usually occurs within 1 to 3 weeks, along with reduction in complex and total ventricular ectopic beats.

Since grapefruit juice is known to inhibit CYP3A4-mediated metabolism of oral amio-darone in the intestinal mucosa, resulting in increased plasma levels of amiodarone: grapefruit juice should not be taken during treatment with oral amiodarone (see "PRE-CAUTIONS, Drug Interactions").

Upon starting Cordarone therapy, an attempt should be made to gradually discontinue prior antiarrhythmic drugs (see section on "**Drug Interactions**"). When adequate arrhythmia control is achieved, or if side effects become prominent, Cordarone dose should be reduced to 600 to 800 mg/day for one month and then to the maintenance dose, usually 400 mg/day (see "CLINICAL PHARMACOLOGY-Monitoring Effectiveness"). Some patients may require larger maintenance doses, up to 600 mg/day, and some can be controlled on lower doses. Cordarone may be administered

as a single daily dose, or in patients with severe gastrointestinal intolerance, as a b.i.d. dose. In each patient, the chronic maintenance dose should be determined according to antiarrhythmic effect as assessed by symptoms. Holter recordings, and/or programmed electrical stimulation and by patient tolerance. Plasma concentrations may helpful in evaluating nonresponsiveness or unexpectedly severe toxicity (see "CLINI-CAL PHARMACOLOGY").

The lowest effective dose should be used to prevent the occurrence of side effects. In all instances, the physician must be guided by the severity of the individual patient's arrhythmia and response to therapy.

When dosage adjustments are necessary, the patient should be closely monitored for an extended period of time because of the long and variable half-life of Cordarone and the difficulty in predicting the time required to attain a new steady-state level of drug. Dosage suggestions are summarized below:

	Loading Dose (Daily)	Adjustment and Maintenance Dose (Daily)		
Ventricular Arrhythmias	1 to 3 weeks	~1 month	usual maintenance	
	800 to 1,600 mg	600 to 800 mg	400 mg	

HOW SUPPLIED

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Manufactured for

Wyeth Laboratories A Wyeth-Ayerst Company Philadelphia, PA 19101

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by Sanofi Winthrop Industrie

1, rue de la Vierge 33440 Ambares, France

CI 6036-2

Cordarone® (amiodarone HCI) Tablets are available in bottles of 60 tablets and in Redipak® cartons containing 100 tablets (10 blister strips of 10) as follows: 200 mg, NDC 0008-4188, round, convex-faced, pink tablets with a raised "C" and marked "200" on one side, with reverse side scored and marked "WYETH" and "4188." Keep tightly closed.

Store at room temperature, approximately 25°C (77°F). Protect from light. Dispense in a light-resistant, tight container.

Use carton to protect contents from light.