CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

75-237

APPROVED DRAFT LABELING

00467402

APPROVED

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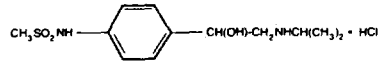
SOTALOL HCl TABLETS
80 mg, 120 mg, 160 mg, 240 mg

DESCRIPTION

Sotalol hydrochloride is an antiarrhythmic drug with Class II (beta-adrenoreceptor blocking) and Class III (cardiac action potential duration prolongation) properties. Sotalol hydrochloride is a white, crystalline solid with a molecular weight of 308.8. It is hydrophilic, soluble in water, propylene glycol and ethanol, but is only slightly soluble in chloroform. Chemically, sotalol hydrochloride is d,l-N-[4-[1-hydroxy-2-[(1-methylethyl)amino]ethyl]phenyl]methane-sulfonamide monohydrochloride. The molecular formula is $C_{12}H_{20}N_2O_3S{\cdot}HCl$ and is represented by the following structural formula:



Sotalol Hydrochloride Tablets contain either 80 mg, 120 mg, 160 mg, or 240 mg of sotalol hydrochloride. In addition they also contain the following inactive ingredients: colloidal silicon dioxide, lactose monohydrate, magnesium stearate, microcrystalline cellulose, pregelatinized starch, and stearic acid.

CLINICAL PHARMACOLOGY

Mechanism of Action

Sotalol has both beta-adrenoreceptor blocking (Vaughan Williams Class II) and cardiac action potential duration prolongation (Vaughan Williams Class III) antiarrhythmic properties. Sotalol hydrochloride is a racemic mixture of d- and l-sotalol. Both isomers have similar Class III antiarrhythmic effects, while the l-isomer is responsible for virtually all of the beta-blocking activity. The beta-blocking effect of sotalol is non-cardioselective, half maximal at about 80 mg/day and maximal at doses between 320 and 640 mg/day. Sotalol does not have partial agonist or membrane stabilizing activity. Although significant beta-blockade occurs at oral doses as low as 25 mg, Class III effects are seen only at daily doses of 160 mg and above.

Electrophysiology

Sotalol prolongs the plateau phase of the cardiac action potential in the isolated myocyte, as well as in isolated tissue preparations of ventricular or atrial muscle (Class III activity). In intact animals it slows heart rate, decreases AV nodal conduction and increases the refractory periods of atrial and ventricular muscle and conduction tissue.

In man, the Class II (beta-blockade) electrophysiological effects of sotalol are manifested by increased sinus cycle length (slowed heart rate), decreased AV nodal conduction and increased AV nodal refractoriness. The Class III electrophysiological effects in man include prolongation of the atrial and ventricular monophasic action potentials, and effective refractory period prolongation of atrial muscle, ventricular muscle, and atrio-ventricular accessory pathways (where present) in both the anterograde and retrograde directions. With oral doses of 160 to 640 mg/day, the surface ECG shows dose-related mean increases of 40 to 100 msec in QT and 10 to 40 msec in QT_C. (See **WARNINGS** for description of relationship between QT_C and torsade de pointes type arrhythmias.) No significant alteration in QRS interval is observed.

In a small study (n=25) of patients with implanted defibrillators treated concurrently with sotalol, the average defibrillatory threshold was 6 joules (range 2 to 15 joules) compared to a mean of 16 joules for a non-randomized comparative group primarily receiving amiodarone.

Hemodynamics

In a study of systemic hemodynamic function measured invasively in 12 patients with a mean LV ejection fraction of 37% and ventricular tachycardia (9 sustained and 3 non-sustained), a median dose of 160 mg twice daily of sotalol hydrochloride produced a 28% reduction in heart rate and a 24% decrease in cardiac index at 2 hours post dosing at steady-state. Concurrently, systemic vascular resistance and stroke volume showed non-significant increases of 25% and 8%, respectively. Pulmonary capillary wedge pressure increased significantly from 6.4 mmHg to 11.8 mmHg in the 11 patients who completed the study. One patient was discontinued because of worsening congestive heart failure. Mean arterial pressure, mean pulmonary artery pressure and stroke work index did not significantly change. Exercise and isoproterenol-induced tachycardia are antagonized by sotalol, and total peripheral resistance increases by a small amount.

In hypertensive patients, sotalol produces significant reductions in both systolic and diastolic blood pressures. Although sotalol is usually well-tolerated hemodynamically, caution should be exercised in patients with marginal cardiac compensation as deterioration in cardiac performance may occur. (See **WARNINGS - Congestive Heart Failure**.)

Clinical Actions

Sotalol has been studied in life-threatening and less severe arrhythmias. In patients with frequent premature ventricular complexes (VPC), sotalol was significantly superior to placebo in reducing VPCs, paired VPCs and non-sustained ventricular tachycardia (NSVT); the response was dose-related through 640 mg/day with 80 to 85% of patients having at least a 75% reduction of VPCs. Sotalol was also superior, at the doses evaluated, to propranolol (40 to 80 mg TID) and similar to quinidine (200 to 400 mg QID) in reducing VPCs. In patients with life-threatening arrhythmias [sustained ventricular tachycardia/fibrillation (VT/VF)], sotalol was studied acutely [by suppression of programmed electrical stimulation (PES) induced VT and by suppression of Holter monitor evidence of sustained VT] and, in acute responders, chronically.

In a double-blind, randomized comparison of sotalol and procainamide given intravenously (total of 2 mg/kg sotalol hydrochloride vs. 19 mg/kg of procainamide over 90 minutes), sotalol suppressed PES induction in 30% of patients vs. 20% for procainamide (p=0.2).

In a randomized clinical trial [Electrophysiologic Study Versus Electrocardiographic Monitoring (ESVEM) Trial] comparing choice of antiarrhythmic therapy by PES suppression vs. Holter monitor selection (in each case followed by treadmill exercise testing) in patients with a history of sustained VT/VF who were also inducible by PES, the effectiveness acutely and chronically of sotalol was compared with 6 other drugs (procainamide, quinidine, mexiletine, propafenone, imipramine and pirmenol). Overall response, limited to first randomized drug, was 39% for sotalol and 30% for the pooled other drugs. Acute response rate for first drug randomized using suppression of PES induction was 36% for sotalol vs. a mean of 13% for the other drugs. Using the Holter monitoring endpoint (complete suppression of sustained VT, 90% suppression of NSVT, 80% suppression of VPC pairs, and at least 70% suppression of VPCs), sotalol yielded 41% response vs. 45% for the other drugs combined. Among responders placed on long-term therapy identified acutely as effective (by either PES or Holter), sotalol, when compared to the pool of other drugs, had the lowest two-year mortality (13% vs. 22%), the lowest two-year VT recurrence rate (30% vs. 60%), and the lowest withdrawal rate (38% vs. about 75 to 80%). The most commonly used doses of sotalol in this trial were 320 to 480 mg/day (66% of patients), with 16% receiving 240 mg/day or less and 18% receiving 640 mg or more.

It cannot be determined, however, in the absence of a controlled comparison of sotalol vs. no pharmacologic treatment (e.g., in patients with implanted defibrillators) whether sotalol response causes improved survival or identifies a population with a good prognosis.

In a large double-blind, placebo controlled secondary prevention (post-infarction) trial (n=1,456), sotalol hydrochloride was given as a non-titrated initial dose of 320 mg once daily. Sotalol did not produce a significant increase in survival (7.3% mortality on sotalol vs. 8.9% on placebo, p=0.3), but overall did not suggest an adverse effect on survival. There was, however, a suggestion of an early (i.e., first 10 days) excess mortality (3% on sotalol vs. 2% on placebo). In a second small trial (n=17 randomized to sotalol) where sotalol was administered at high doses (e.g., 320 mg twice daily) to high-risk post-infarction patients (ejection fraction <40% and either >10 VPC/hr or VT on Holter), there were 4 fatalities and 3 serious hemodynamic/electrical adverse events within two weeks of initiating sotalol.

Pharmacokinetics

In healthy subjects, the oral bioavailability of sotalol is 90 to 100%. After oral administration, peak plasma concentrations are reached in 2.5 to 4 hours, and steady-state plasma concentrations are attained within 2 to 3 days (i.e., after 5 to 6 doses when administered twice daily). Over the dosage range 160 to 640 mg/day sotalol hydrochloride displays dose proportionality with respect to plasma concentrations. Distribution occurs to a central (plasma) and to a peripheral compartment, with a mean elimination half-life of 12 hours. Dosing every 12 hours results in trough plasma concentrations which are approximately one-half of those at peak.

Sotalol does not bind to plasma proteins and is not metabolized. Sotalol shows very little intersubject variability in plasma levels. The pharmacokinetics of the d and l enantiomers of sotalol are essentially identical. Sotalol crosses the blood-brain barrier poorly. Excretion is predominantly via the kidney in the unchanged form, and therefore lower doses are necessary in conditions of renal impairment (see **DOSAGE AND ADMINISTRATION**). Age per se does not significantly alter the pharmacokinetics of sotalol, but impaired renal function in geriatric patients can increase the terminal elimination half-life, resulting in increased drug accumulation. The absorption of sotalol was reduced by approximately 20% compared to fasting when it was administered with a standard meal. Since sotalol is not subject to first-pass metabolism, patients with hepatic impairment show no alteration in clearance of sotalol.

INDICATIONS AND USAGE

Sotalol Hydrochloride Tablets

WARNINGS

Mortality

The National Heart, Lung and Blood Institute's Cardiac Arrhythmia Suppression Trial I (CAST I) was a long-term, multi-center, double-blind study in patients with asymptomatic, non-life-threatening ventricular arrhythmias, 1 to 103 weeks after acute myocardial infarction.

Patients in CAST I were randomized to receive placebo or individually optimized doses of encainide, flecainide, or moricizine. The Cardiac Arrhythmia Suppression Trial II (CAST II) was similar, except that the recruited patients had had their index infarction 4 to 90 days before randomization, patients with left ventricular ejection fractions greater than 40% were not admitted, and the randomized regimens were limited to placebo and moricizine.

CAST I was discontinued after an average time-on-treatment of 10 months, and CAST II was discontinued after an average time-on-treatment of 18 months. As compared to placebo treatment, all three active therapies were associated with increases in short-term (14-day) mortality, and encainide and flecainide were associated with significant increases in longer-term mortality as well. The longer-term mortality rate associated with moricizine treatment could not be statistically distinguished from that associated with placebo.

The applicability of these results to other populations (e.g., those without recent myocardial infarction) and to other Class I antiarrhythmic agents is uncertain. Sotalol is devoid of Class I effects, and in a large (n=1,456) controlled trial in patients with a recent myocardial infarction, who did not necessarily have ventricular arrhythmias, sotalol hydrochloride did not produce increased mortality at doses up to 320 mg/day (see **Clinical Actions**). On the other hand, in the large post-infarction study using a non-titrated initial dose of 320 mg once daily and in a second small randomized trial in high-risk post-infarction patients treated with high doses (320 mg BID), there have been suggestions of an excess of early sudden deaths.

Proarrhythmia

Like other antiarrhythmic agents, sotalol can provoke new or worsened ventricular arrhythmias in some patients, including sustained ventricular tachycardia or ventricular fibrillation, with potentially fatal consequences. Because of its effect on cardiac repolarization (QT_C interval prolongation), torsade de pointes, a polymorphic ventricular tachycardia with prolongation of the QT interval and a shifting electrical axis is the most common form of proarrhythmia associated with sotalol, occurring in about 4% of high risk (history of sustained VT/VF) patients. The risk of torsade de pointes progressively increases with prolongation of the QT interval, and is worsened also by reduction in heart rate and reduction in serum potassium. (See **Electrolyte Disturbances**.)

Because of the variable temporal recurrence of arrhythmias, it is not always possible to distinguish between a new or aggravated arrhythmic event and the patient's underlying rhythm disorder. (Note, however, that torsade de pointes is usually a drug-induced arrhythmia in people with an initially normal QT_C.) Thus, the incidence of drug-related events cannot be precisely determined, so that the occurrence rates provided must be considered approximations. Note also that drug-induced arrhythmias may often not be identified, particularly if they occur long after starting the drug, due to less frequent monitoring. It is clear from the NIH-sponsored CAST (see **WARNINGS - Mortality**) that some antiarrhythmic drugs can cause increased sudden death mortality, presumably due to new arrhythmias or asystole, that do not appear early in treatment but that represent a sustained increased risk.

Overall in clinical trials with sotalol, 4.3% of 3257 patients experienced a new or worsened ventricular arrhythmia. Of this 4.3%, there was new or worsened sustained ventricular tachycardia in approximately 1% of patients and torsade de pointes in 2.4%. Additionally, in approximately 1% of patients, deaths were considered possibly drug-related; such cases, although difficult to evaluate, may have been associated with proarrhythmic events. **In patients with a history of sustained ventricular tachycardia, the incidence of torsade de pointes was 4% and worsened VT in about 1%; in patients with other, less serious, ventricular arrhythmias and supraventricular arrhythmias, the incidence of torsade de pointes was 1% and 1.4%, respectively.**

Torsade de pointes arrhythmias were dose related, as is the prolongation of QT(QT_C) interval, as shown in the table below.

Percent Incidence of Torsade de Pointes and Mean QT_C Interval by Dose – For Patients With Sustained VT/VF

Daily Dose (mg)	Incidence of Torsade de pointes	Mean QT_C* (msec)
80	0(69)	463 (17)
160	0.5(832)	467 (181)
320	1.6(835)	473 (344)
480	4.4(459)	483 (234)
640	3.7(324)	490 (185)
>640	5.8(103)	512 (62)

( ) Number of patients assessed

*highest on-therapy value

In addition to dose and presence of sustained VT, other risk factors for torsade de pointes were gender (females had a higher incidence), excessive prolongation of the QT_C interval (see table below) and history of cardiomegaly or congestive heart failure. Patients with sustained ventricular tachycardia and a history of congestive heart failure appear to have the highest risk for serious proarrhythmia (7%). Of the patients experiencing torsade de pointes, approximately two-thirds spontaneously reverted to their baseline rhythm. The others were either converted electrically (D/C cardioversion or overdrive pacing) or treated with other drugs (see **OVERDOSAGE**). It is not possible to determine whether some sudden deaths represented episodes of torsade de pointes, but in some instances sudden death did follow a documented episode of torsade de pointes. Although sotalol therapy was discontinued in most patients experiencing torsade de pointes, 17% were continued on a lower dose. Nonetheless, sotalol should be used with particular caution if the QT_C is greater than 500 msec on-therapy and serious consideration should be given to reducing the dose or discontinuing therapy when the QT_C exceeds 550 msec. Due to the multiple risk-factors associated with torsade de pointes, however, caution should be exercised regardless of the QT_C interval. The table below relates the incidence of torsade de pointes to on-therapy QT_C and change in QT_C from baseline. It should be noted, however, that the highest on-therapy QT_C was in many cases the one obtained at the time of the torsade de pointes event, so that the table overstates the predictive value of a high QT_C.

Relationship Between QT_C Interval Prolongation and Torsade de Pointes

On-Therapy QT_C Interval (msec)	Incidence of Torsade de pointes	Change in QT_C Interval From Baseline (msec)	Incidence of Torsade de pointes
less than 500	1.3% (1787)	less than 65	1.6% (1516)
500 to 525	3.4% (236)	65 to 80	3.2% (158)
525 to 550	5.6% (125)	80 to 100	4.1% (146)
>550	10.8% (157)	100 to 130	5.2% (115)
		>130	7.1% (99)

( ) Number of patients assessed

Proarrhythmic events must be anticipated not only on initiating therapy, but with every upward dose adjustment. Proarrhythmic events most often occur within 7 days of initiating therapy or of an increase in dose; 75% of serious proarrhythmias (torsade de pointes and worsened VT) occurred within 7 days of initiating sotalol therapy, while 60% of such events occurred within 3 days of initiation or a dosage change. Initiating therapy at 80 mg BID with gradual upward dose titration and appropriate evaluations for efficacy (e.g., PES or Holter) and safety (e.g., QT interval, heart rate and electrolytes) prior to dose escalation, should reduce the risk of proarrhythmia.

Avoiding excessive accumulation of sotalol in patients with diminished renal function, by appropriate dose reduction, should also reduce the risk of proarrhythmia (see **DOSAGE AND ADMINISTRATION**).

Congestive Heart Failure

Sympathetic stimulation is necessary in supporting circulatory function in congestive heart failure, and beta-blockade carries the potential hazard of further depressing myocardial contractility and precipitating more severe failure. In patients who have congestive heart failure controlled by digitalis and/or diuretics, sotalol should be administered cautiously. Both digitalis and sotalol slow AV conduction. As with all beta-blockers, caution is advised when initiating therapy in patients with any evidence of left ventricular dysfunction. In premarketing studies, new or worsened congestive heart failure (CHF) occurred in 3.3% (n=3257) of patients and led to discontinuation in approximately 1% of patients receiving sotalol. The incidence was higher in patients presenting with sustained ventricular tachycardia/fibrillation (4.6%, n=1363), or a prior history of heart failure (7.3%, n=696). Based on a life-table analysis, the one-year incidence of new or worsened CHF was 3% in patients without a prior history and 10% in patients with a prior history of CHF. NYHA Classification was also closely associated to the incidence of new or worsened heart failure while receiving sotalol (1.8%, in 1395 Class I patients, 4.0% [illegible]

a randomized clinical trial (Electrophysiologic Study Versus Electrocardiographic Monitoring) comparing choice of antiarrhythmic therapy by PES suppression vs. Holter monitor selection (in each case followed by treadmill exercise testing) in patients with a history of sustained VT/VF who were also inducible by PES, the effectiveness acutely and chronically of sotalol was compared with 6 other drugs (procainamide, quinidine, mexiletine, propafenone, imipramine and pirmenol). Overall response, limited to first randomized drug, was 39% for sotalol and 30% for the pooled other drugs. Acute response rate for first drug randomized using suppression of PES induction was 36% for sotalol vs. a mean of 13% for the other drugs. Using the Holter monitoring endpoint (complete suppression of sustained VT, 90% suppression of NSVT, 80% suppression of VPC pairs, and at least 70% suppression of VPCs), sotalol yielded 41% response vs. 45% for the other drugs combined. Among responders placed on long-term therapy identified acutely as effective (by either PES or Holter), sotalol, when compared to the pool of other drugs, had the lowest two-year mortality (13% vs. 22%), the lowest two-year VT recurrence rate (30% vs. 60%), and the lowest withdrawal rate (38% vs. about 75 to 80%). The most commonly used doses of sotalol in this trial were 320 to 480 mg/day (66% of patients), with 16% receiving 240 mg/day or less and 18% receiving 640 mg or more.

It cannot be determined, however, in the absence of a controlled comparison of sotalol vs. no pharmacologic treatment (e.g., in patients with implanted defibrillators) whether sotalol response causes improved survival or identifies a population with a good prognosis.

In a large double-blind, placebo controlled secondary prevention (post-infarction) trial (n=1,456), sotalol hydrochloride was given as a non-titrated initial dose of 320 mg once daily. Sotalol did not produce a significant increase in survival (7.3% mortality on sotalol vs. 8.9% on placebo, p=0.3), but overall did not suggest an adverse effect on survival. There was, however, a suggestion of an early (i.e., first 10 days) excess mortality (3% on sotalol vs. 2% on placebo). In a second small trial (n=17 randomized to sotalol) where sotalol was administered at high doses (e.g., 320 mg twice daily) to high-risk post-infarction patients (ejection fraction <40% and either >10 VPC/hr or VT on Holter), there were 4 fatalities and 3 serious hemodynamic/electrical adverse events within two weeks of initiating sotalol.

Pharmacokinetics
In healthy subjects, the oral bioavailability of sotalol is 90 to 100%. After oral administration, peak plasma concentrations are reached in 2.5 to 4 hours, and steady-state plasma concentrations are attained within 2 to 3 days (i.e., after 5 to 6 doses when administered twice daily). Over the dosage range 160 to 640 mg/day sotalol hydrochloride displays dose proportionality with respect to plasma concentrations. Distribution occurs to a central (plasma) and to a peripheral compartment, with a mean elimination half-life of 12 hours. Dosing every 12 hours results in trough plasma concentrations which are approximately one-half of those at peak.

Sotalol does not bind to plasma proteins and is not metabolized. Sotalol shows very little intersubject variability in plasma levels. The pharmacokinetics of the d and l enantiomers of sotalol are essentially identical. Sotalol crosses the blood-brain barrier poorly. Excretion is predominantly via the kidney in the unchanged form, and therefore lower doses are necessary in conditions of renal impairment (see **DOSAGE AND ADMINISTRATION**). Age per se does not significantly alter the pharmacokinetics of sotalol, but impaired renal function in geriatric patients can increase the terminal elimination half-life, resulting in increased drug accumulation. The absorption of sotalol was reduced by approximately 20% compared to fasting when it was administered with a standard meal. Since sotalol is not subject to first-pass metabolism, patients with hepatic impairment show no alteration in clearance of sotalol.

INDICATIONS AND USAGE

Sotalol Hydrochloride Tablets are indicated for the treatment of documented ventricular arrhythmias, such as sustained ventricular arrhythmias, that in the judgement of the physician are life-threatening. Because of the proarrhythmic effects of sotalol (See **WARNINGS**), including a 1.5 to 2% rate of torsade de pointes or new VT/VF in patients with either NSVT or supraventricular arrhythmias, its use in patients with less severe arrhythmias, even if the patients are symptomatic, is generally not recommended. Treatment of patients with asymptomatic ventricular premature contraindications should be avoided.

Initiation of sotalol treatment or increasing doses, as with other antiarrhythmic agents used to treat life-threatening arrhythmias, should be carried out in the hospital. The response to treatment should then be evaluated by a suitable method (e.g., PES or Holter monitoring) prior to continuing the patient on chronic therapy. Various approaches have been used to determine the response to antiarrhythmic therapy, including sotalol.

In the ESVEM Trial, response by Holter monitoring was tentatively defined as 100% suppression of ventricular tachycardia, 90% suppression of non-sustained VT, 80% suppression of paired VPCs, and 75% suppression of total VPCs in patients who had at least 10 VPCs/hour at baseline; this tentative response was confirmed if VT lasting 5 or more beats was not observed during treadmill exercise testing using a standard Bruce protocol. The PES protocol utilized a maximum of three extra stimuli at three pacing cycle lengths and two right ventricular pacing sites. Response by PES was defined as prevention of induction of the following: 1) monomorphic VT lasting over 15 seconds; 2) non-sustained polymorphic VT containing more than 15 beats of monomorphic VT; 3) polymorphic VT or VF greater than 15 beats in patients with VF or a history of aborted sudden death without monomorphic VT; and 4) two episodes of polymorphic VT or VF of greater than 15 beats in a patient presenting with monomorphic VT. Sustained VT or NSVT producing hypotension during the final treadmill test was considered a drug failure.

In a multicenter open-label long-term study of sotalol in patients with life-threatening ventricular arrhythmias which had proven refractory to other antiarrhythmic medications, response by Holter monitoring was defined as in ESVEM. Response by PES was defined as non-inducibility of sustained VT by at least double extrastimuli delivered at a pacing cycle length of 400 msec. Overall survival and arrhythmia recurrence rates in this study were similar to those seen in ESVEM, although there was no comparative group to allow a definitive assessment of outcome.

Antiarrhythmic drugs have not been shown to enhance survival in patients with ventricular arrhythmias.

CONTRAINDICATIONS

Sotalol Hydrochloride is contraindicated in patients with bronchial asthma, sinus bradycardia, second and third degree AV block, unless a functioning pacemaker is present, congenital or acquired long QT syndromes, cardiogenic shock, uncontrolled congestive heart failure, and previous evidence of hypersensitivity to sotalol.

episodes of torsade de pointes, but in some instances sudden death did follow a documented episode of torsade de pointes. Although sotalol therapy was discontinued in most patients experiencing torsade de pointes, 17% were continued on a lower dose. Nonetheless, sotalol should be used with particular caution if the QT_C is greater than 500 msec on-therapy and serious consideration should be given to reducing the dose or discontinuing therapy when the QT_C exceeds 550 msec. Due to the multiple risk-factors associated with torsade de pointes, however, caution should be exercised regardless of the QT_C interval. The table below relates the incidence of torsade de pointes to on-therapy QT_C and change in QT_C from baseline. It should be noted, however, that the highest on-therapy QT_C was in many cases the one obtained at the time of the torsade de pointes event, so that the table overstates the predictive value of a high QT_C.

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Avoiding excessive accumulation of sotalol in patients with diminished renal function, by appropriate dose reduction, should also reduce the risk of proarrhythmia (see **DOSAGE AND ADMINISTRATION**).

Congestive Heart Failure
Sympathetic stimulation is necessary in supporting circulatory function in congestive heart failure, and beta-blockade carries the potential hazard of further depressing myocardial contractility and precipitating more severe failure. In patients who have congestive heart failure controlled by digitalis and/or diuretics, sotalol should be administered cautiously. Both digitalis and sotalol slow AV conduction. As with all beta-blockers, caution is advised when initiating therapy in patients with any evidence of left ventricular dysfunction. In premarketing studies, new or worsened congestive heart failure (CHF) occurred in 3.3% (n=3257) of patients and led to discontinuation in approximately 1% of patients receiving sotalol. The incidence was higher in patients presenting with sustained ventricular tachycardia/fibrillation (4.6%, n=1363), or a prior history of heart failure (7.3%, n=696). Based on a life-table analysis, the one-year incidence of new or worsened CHF was 3% in patients without a prior history and 10% in patients with a prior history of CHF. NYHA Classification was also closely associated to the incidence of new or worsened heart failure while receiving sotalol (1.8% in 1395 Class I patients, 4.9% in 1254 Class II patients and 6.1% in 278 Class III or IV patients).

Electrolyte Disturbances
Sotalol should not be used in patients with hypokalemia or hypomagnesemia prior to correction of imbalance, as these conditions can exaggerate the degree of QT prolongation, and increase the potential for torsade de pointes. Special attention should be given to electrolyte and acid-base balance in patients experiencing severe or prolonged diarrhea or patients receiving concomitant diuretic drugs.

Conduction Disturbances
Excessive prolongation of the QT interval (>550 msec) can promote serious arrhythmias and should be avoided (see **Proarrhythmias** above). Sinus bradycardia (heart rate less than 50 bpm) occurred in 13% of patients receiving sotalol in clinical trials, and led to discontinuation in about 3% of patients. Bradycardia itself increases the risk of torsade de pointes. Sinus pause, sinus arrest and sinus node dysfunction occur in less than 1% of patients. The incidence of 2nd- or 3rd-degree AV block is approximately 1%.

Recent Acute MI
Sotalol can be used safely and effectively in the long-term treatment of life-threatening ventricular arrhythmias following a myocardial infarction. However, experience in the use of sotalol to treat cardiac arrhythmias in the early phase of recovery from acute MI is limited and at least at high initial doses is not reassuring. (See **WARNINGS - Mortality.**) In the first 2 weeks post-MI caution is advised and careful dose titration is especially important, particularly in patients with markedly impaired ventricular function.

The following warnings are related to the beta-blocking activity of sotalol.

Abrupt Withdrawal
Hypersensitivity to catecholamines has been observed in patients withdrawn from beta-blocker therapy. Occasional cases of exacerbation of angina pectoris, arrhythmias and, in some cases, myocardial infarction have been reported after abrupt discontinuation of beta-blocker therapy.

Therefore, it is prudent when discontinuing chronically administered sotalol, particularly in patients with ischemic heart disease, to carefully monitor the patient and consider the temporary use of an alternate beta-blocker if appropriate. If possible, the dosage of sotalol hydrochloride should be gradually reduced over a period of one to two weeks. If angina or acute coronary insufficiency develops, appropriate therapy should be instituted promptly. Patients should be warned against interruption or discontinuation of therapy without the physician's advice. Because coronary artery disease is common and may be unrecognized in patients receiving sotalol, abrupt discontinuation in patients with arrhythmias may unmask latent coronary insufficiency.

Non-Allergic Bronchospasm (e.g., chronic bronchitis and emphysema)
PATIENTS WITH BRONCHOSPASTIC DISEASES SHOULD IN GENERAL NOT RECEIVE BETA-BLOCKERS. It is prudent, if sotalol is to be administered, to use the smallest effective dose, so that inhibition of bronchodilation produced by endogenous or exogenous catecholamine stimulation of $beta_2$ receptors may be minimized.

Anaphylaxis
While taking beta-blockers, patients with a history of anaphylactic reaction to a variety of allergens may have a more severe reaction on repeated challenge, either accidental, diagnostic or therapeutic. Such patients may be unresponsive to the usual doses of epinephrine used to treat the allergic reaction.

Anesthesia
The management of patients undergoing major surgery who are being treated with beta-blockers is controversial. Protracted severe hypotension and difficulty in restoring and maintaining normal cardiac rhythm after anesthesia have been reported in patients receiving beta-blockers.

Diabetes
In patients with diabetes (especially labile diabetes) or with a history of episodes of spontaneous hypoglycemia, sotalol should be given with caution since beta-blockade may mask some important premonitory signs of acute hypoglycemia; e.g., tachycardia.

Sick Sinus Syndrome
Sotalol should be used only with extreme caution in patients with sick sinus syndrome associated with symptomatic arrhythmias, because it may cause sinus bradycardia, sinus pauses or sinus arrest.

Thyrotoxicosis
Beta-blockade may mask certain clinical signs (e.g., tachycardia) of hyperthyroidism. Patients suspected of developing thyrotoxicosis should be managed carefully to avoid abrupt withdrawal of beta-blockade which might be followed by an exacerbation of symptoms of hyperthyroidism, including thyroid storm.

PRECAUTIONS

Renal Impairment
Sotalol is mainly eliminated via the kidneys through glomerular filtration and to a small degree by tubular secretion. There is a direct relationship between renal function, as measured by serum creatinine or creatinine clearance, and the elimination rate of sotalol. Guidance for dosing in conditions of renal impairment can be found under "DOSAGE AND ADMINISTRATION".

Drug Interactions
ANTIARRHYTHMICS
Class Ia antiarrhythmic drugs, such as disopyramide, quinidine and procainamide and other Class III drugs (e.g., amiodarone) are not recommended as concomitant therapy with sotalol, because of their potential to prolong refractoriness (see **WARNINGS**). There is only limited experience with the concomitant use of Class Ib or Ic antiarrhythmics. Additive Class II effects would also be anticipated with the use of other beta-blocking agents concomitantly with sotalol.

DIGOXIN
Single and multiple doses of sotalol do not substantially affect serum digoxin levels. Proarrhythmic events were more common in sotalol treated patients also receiving digoxin; it is not clear whether this represents an interaction or is related to the presence of CHF, a known risk factor for proarrhythmia, in the patients receiving digoxin.

CALCIUM BLOCKING DRUGS
Sotalol should be administered with caution in conjunction with calcium blocking drugs because of possible additive effects on atrioventricular conduction or ventricular function. Additionally, concomitant use of these drugs may have additive effects on blood pressure, possibly leading to hypotension.

CATECHOLAMINE-DEPLETING AGENTS
Concomitant use of catecholamine-depleting drugs, such as reserpine and guanethidine, with a beta-blocker may produce an excessive reduction of resting sympathetic nervous tone. Patients treated with sotalol plus a catecholamine depletor should therefore be closely monitored for evidence of hypotension and or marked bradycardia which may produce syncope.

INSULIN AND ORAL ANTIDIABETICS
Hyperglycemia may occur, and the dosage of insulin or antidiabetic drugs may require adjustment. Symptoms of hypoglycemia may be masked.

BETA-2-RECEPTOR STIMULANTS
Beta-agonists such as salbutamol, terbutaline and isoprenaline may have to be administered in increased dosages when used concomitantly with sotalol.

CLONIDINE
Beta-blocking drugs may potentiate the rebound hypertension sometimes observed after discontinuation of clonidine; therefore, caution is advised when discontinuing clonidine in patients receiving sotalol.

OTHER
No pharmacokinetic interactions were observed with hydrochlorothiazide or warfarin.

ANTACIDS
Administration of sotalol within 2 hours of antacids containing aluminum oxide and magnesium hydroxide should be avoided because it may result in a reduction in C_{max} and AUC of 26% and 20%, respectively and consequently in a 25% reduction in the bradycardic effect at rest. Administration of the antacid two hours after sotalol has no effect on the pharmacokinetics or pharmacodynamics of sotalol.

DRUGS PROLONGING THE QT INTERVAL
Sotalol should be administered with caution in conjunction with other drugs known to prolong the QT interval such as Class I antiarrhythmic agents, phenothiazines, tricyclic antidepressants, terfenadine and astemizole (see **WARNINGS**).

DRUG/*Laboratory Test Interactions*
The presence of sotalol in the urine may result in falsely elevated levels of urinary metanephrine when measured by fluorimetric or photometric methods. In screening patients suspected of having a pheochromocytoma and being treated with sotalol, a specific method, such as a high performance liquid chromatographic assay with solid phase extraction (e.g., J. Chromatogr. 385:241, 1987) should be employed in determining levels of catecholamines.

Carcinogenesis, Mutagenesis, Impairment of Fertility
No evidence of carcinogenic potential was observed in rats during a 24-month study at 137 to 275 mg/kg/day (approximately 30 times the maximum recommended human oral dose (MRHD) as mg/kg or 5 times the MRHD as mg/m^2) or in mice, during a 24-month study at 4141 to 7122 mg/kg/day (approximately 450 to 750 times the MRHD as mg/kg or 36 to 63 times the MRHD as mg/m^2).

Sotalol has not been evaluated in any specific assay of mutagenicity or clastogenicity.

No significant reduction in fertility occurred in rats at oral doses of 1000 mg/kg/day (approximately 100 times the MRHD as mg/kg or 9 times the MRHD as mg/m^2) prior to mating, except for a small reduction in the number of offspring per litter.

Pregnancy: Teratogenic Effects
PREGNANCY CATEGORY B
Reproduction studies in rats and rabbits during organogenesis at 100 and 22 times the MRHD as mg/kg (9 and 7 times the MRHD as mg/m^2), respectively, did not reveal any teratogenic potential associated with sotalol. In rabbits, a high dose of sotalol (160 mg/kg/day) at 16 times the MRHD as mg/kg (6 times the MRHD as mg/m^2) produced a slight increase in fetal death likely due to maternal toxicity. Eight times the maximum dose (80 mg/kg/day or 3 times the MRHD as mg/m^2) did not result in an increased incidence of fetal deaths. In rats, 1000 mg/kg/day sotalol, 100 times the MRHD (18 times the MRHD as mg/m^2), increased the number of early resorptions, while at 14 times the maximum dose (2.5 times the MRHD as mg/m^2), no increase in early resorptions was noted. However, animal reproduction studies are not always predictive of human response.

Although there are no adequate and well-controlled studies in pregnant women, sotalol has been shown to cross the placenta, and is found in amniotic fluid. There has been a report of subnormal birth weight with sotalol. Therefore, sotalol should be used during pregnancy only if the potential benefit outweighs the potential risk.

Nursing Mothers
Sotalol is excreted in the milk of laboratory animals and has been reported to be present in human milk. Because of the potential for adverse reactions in nursing infants from sotalol, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use
The safety and effectiveness of sotalol in pediatric patients have not been established.

ADVERSE REACTIONS

During premarketing trials, 3186 patients with cardiac arrhythmias (1363 with sustained ventricular tachycardia) received oral sotalol, of whom 2451 received the drug for at least two weeks. The most important adverse effects are torsade de pointes and other serious new ventricular arrhythmias (see **WARNINGS**), occurring at rates of almost 4% and 1%, respectively, in the VT/VF population. Overall, discontinuation because of unacceptable side-effects was necessary in 17% of all patients in clinical trials, and in 13% of patients treated for at least two weeks. The most common adverse reactions leading to discontinuation of sotalol are as follows: fatigue 4%, bradycardia (less than 50 bpm) 3%, dyspnea 3%, proarrhythmia 3%, asthenia 2%, and dizziness 2%.

Occasional reports of elevated serum liver enzymes have occurred with sotalol therapy but no cause and effect relationship has been established. One case of peripheral neuropathy which resolved on discontinuation of sotalol and recurred when the patient was rechallenged with the drug was reported in an early dose tolerance study. Elevated blood glucose levels and increased insulin requirements can occur in diabetic patients.

The following table lists as a function of dosage the most common (incidence of 2% or greater) adverse events, regardless of relationship to therapy and the percent of patients discontinued due to the event, as

	80 mg	120 mg	160 mg	240 mg	320 mg	Any Dose*	Discontinued
Digestive							
nausea/vomiting	5	4	4	6	6	10	1
diarrhea	2	3	3	3	5	7	<1
dyspepsia	2	3	3	3	3	6	<1
abdominal pain	<1	<1	2	2	2	3	<1
colon problem	2	1	1	<1	2	3	<1
flatulence	1	<1	1	1	2	2	<1
Respiratory							
pulmonary problem	3	3	5	3	4	8	<1
upper respiratory tract problem	1	1	3	4	3	5	<1
asthma	1	<1	1	1	1	2	<1
Urogenital							
genitourinary disorder	1	0	1	1	2	3	<1
sexual dysfunction	<1	1	1	1	3	2	<1
Metabolic							
abnormal lab value	1	2	3	2	1	4	<1
weight change	1	1	1	<1	2	2	<1
Musculoskeletal							
extremity pain	2	2	4	5	3	7	<1
back pain	1	<1	2	2	2	3	<1
Skin and Appendages							
rash	2	3	2	3	4	5	<1
Hematologic							
bleeding	1	<1	1	<1	2	2	<1
Special Senses							
visual problem	1	1	2	4	5	5	<1

*Because patients are counted at each dose level tested, the Any Dose column cannot be determined by adding across the doses.

Potential Adverse Effects
Foreign marketing experience with sotalol shows an adverse experience profile similar to that described above from clinical trials. Voluntary reports since introduction include rare reports (less than one report per 10,000 patients) of: emotional lability, slightly clouded sensorium, incoordination, vertigo, paralysis, thrombocytopenia, eosinophilia, leukopenia, photosensitivity reaction, fever, pulmonary edema, hyperlipidemia, myalgia, pruritus, alopecia.

The oculomucocutaneous syndrome associated with the beta-blocker practolol has not been associated with sotalol during investigational use and foreign marketing experience.

OVERDOSAGE

Intentional or accidental overdosage with sotalol hydrochloride has rarely resulted in death.

Symptoms and Treatment of Overdosage
The most common signs to be expected are bradycardia, congestive heart failure, hypotension, bronchospasm and hypoglycemia. In cases of massive intentional overdosage (2 to 16 grams) of sotalol hydrochloride the following clinical findings were seen: hypotension, bradycardia, cardiac asystole, prolongation of QT interval, torsade de pointes, ventricular tachycardia, and premature ventricular complexes. If overdosage occurs, therapy with sotalol should be discontinued and the patient observed closely. Because of the lack of protein binding, hemodialysis is useful for reducing sotalol plasma concentrations. Patients should be carefully observed until QT intervals are normalized and the heart rate returns to levels >50 bpm. In addition, if required, the following therapeutic measures are suggested:

Bradycardia or Cardiac Asystole: Atropine, another anticholinergic drug, a beta-adrenergic agonist or transvenous cardiac pacing.

Heart Block: (second and third degree) transvenous cardiac pacemaker.

Hypotension: (depending on associated factors) epinephrine rather than isoproterenol or norepinephrine may be useful.

Bronchospasm: Aminophylline or aerosol beta-2-receptor stimulant.

Torsade de pointes: DC cardioversion, transvenous cardiac pacing, epinephrine, magnesium sulfate.

DOSAGE AND ADMINISTRATION

As with other antiarrhythmic agents, sotalol hydrochloride should be initiated and doses increased in a hospital with facilities for cardiac rhythm monitoring and assessment (see **INDICATIONS AND USAGE**). Sotalol should be administered only after appropriate clinical assessment (see **INDICATIONS AND USAGE**), and the dosage of sotalol must be individualized for each patient on the basis of therapeutic response and tolerance. Proarrhythmic events can occur not only at initiation of therapy, but also with each upward dosage adjustment.

Dosage of sotalol hydrochloride should be adjusted gradually, allowing 2 to 3 days between dosing increments in order to attain steady-state plasma concentrations, and to allow monitoring of QT intervals. Graded dose adjustment will help prevent the usage of doses which are higher than necessary to control the arrhythmia. The recommended initial dose is 80 mg twice daily. This dose may be increased, if necessary, after appropriate evaluation to 240 or 320 mg/day (120 to 160 mg twice daily). In most patients, a therapeutic response is obtained at a total daily dose of 160 to 320 mg/day, given in two or three divided doses. Some patients with life-threatening refractory ventricular arrhythmias may require doses as high as 480 to 640 mg/day; however, these doses should only be prescribed when the potential benefit outweighs the increased risk of adverse events, in particular proarrhythmia. Because of the long terminal elimination half-life of sotalol, dosing on more than a BID regimen is usually not necessary.

Dosage in Renal Impairment
Because sotalol is excreted predominantly in urine and its terminal elimination half-life is prolonged in conditions of renal impairment, the dosing interval (time between divided doses) of sotalol should be modified (when creatinine clearance is lower than 60 mL/min) according to the following table.

Creatinine Clearance (mL/min)	Dosing* Interval (hours)
>60	12
30 to 59	24
10 to 29	36 to 48
<10	Dose should be individualized.

*The initial dose of 80 mg and subsequent doses should be administered at these intervals. See following paragraph for dosage escalations.

Since the terminal elimination half-life of sotalol is increased in patients with renal impairment, a longer duration of dosing is required to reach steady-state. Dose escalations in renal impairment should be done after administration of at least 5 to 6 doses at appropriate intervals (see table above).

Extreme caution should be exercised in the use of sotalol in patients with renal failure undergoing hemodialysis. The half-life of sotalol is prolonged (up to 69 hours) in anuric patients. Sotalol, however, can be partly removed by dialysis with subsequent partial rebound in concentrations when dialysis is completed. Both safety (heart rate, QT interval) and efficacy (arrhythmia control) must be closely monitored.

Transfer to Sotalol
Before starting sotalol, previous antiarrhythmic therapy should generally be withdrawn under careful monitoring for a minimum of 2 to 3 plasma half-lives if the patient's clinical condition permits (see **DRUG INTERACTIONS**). Treatment has been initiated in some patients receiving I.V. lidocaine without ill effect. After discontinuation of amiodarone, sotalol should not be initiated until the QT interval is normalized (see **WARNINGS**).

HOW SUPPLIED

Sotalol Hydrochloride Tablets are available as follows:

80 mg (white, capsule shaped tablet debossed with "G" on one side and "S" score line "80" on the other)
bottles of 100 NDC 55567-057-18
bottles of 1000 NDC 55567-057-35.

120 mg (white, capsule shaped tablet debossed with "G" on one side and "S" score line "120" on the other)
bottles of 100 NDC 55567-076-18
bottles of 1000 NDC 55567-076-35
blisters of 10 in cartons of 100 NDC 55567-076-06.

160 mg (white, capsule shaped tablet debossed with "G" on one side and "S" score line "160" on the other)
bottles of 100 NDC 55567-058-18
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240 mg (white, capsule shaped tablet debossed with "G" on one side and "S" score line "240" on the other)

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The following table lists as a function of dosage the most common (incidence of 2% or greater) adverse events, regardless of relationship to therapy and the percent of patients discontinued due to the event, as collected from clinical trials involving 1292 patients with sustained VT/VF.

Incidence (%) of Adverse Events and Discontinuations

Body System	DAILY DOSE 160 mg (n=832)	240 mg (n=263)	320 mg (n=835)	480 mg (n=459)	640 mg (n=324)	Any Dose* (n=1292)	% Patients Discontinued (n=1292)
Body as a whole							
infection	1	2	2	2	3	4	<1
fever	1	2	3	2	2	4	<1
localized pain	1	1	2	2	2	3	<1
Cardiovascular							
dyspnea	5	8	11	15	15	21	2
bradycardia	8	8	9	7	5	16	2
chest pain	4	3	10	10	14	16	<1
palpitation	3	3	8	9	12	14	<1
edema	2	2	5	3	5	8	1
ECG abnormal	4	2	4	2	2	7	1
hypotension	3	4	3	2	3	6	2
proarrhythmia	<1	<1	2	4	5	5	3
syncope	1	1	3	2	5	5	1
heart failure	2	3	2	2	2	5	1
presyncope	1	2	2	4	3	4	<1
peripheral vascular disorder	1	2	1	1	2	3	<1
cardiovascular disorder	1	<1	2	2	2	3	<1
vasodilation	1	<1	1	2	1	3	<1
AICD Discharge	<1	2	2	2	2	3	<1
hypertension	<1	1	1	1	2	2	<1
Nervous							
fatigue	5	8	12	12	13	20	2
dizziness	7	6	11	11	14	20	1
asthenia	4	5	7	8	10	13	1
light-headed	4	3	6	6	9	12	1
headache	3	2	4	4	4	8	<1
sleep problem	1	1	5	5	6	8	<1
perspiration	1	2	3	4	5	6	<1
altered consciousness	2	3	1	2	3	4	<1
depression	1	2	2	2	3	4	<1
paresthesia	1	1	2	3	2	4	<1
anxiety	2	2	2	3	2	4	<1
mood change	<1	<1	1	3	2	3	<1
appetite disorder	1	2	2	1	3	3	<1
stroke	<1	<1	1	1	<1	1	<1

	<10	Dose should be individualized.

*The initial dose of 80 mg and subsequent doses should be administered at these intervals. See following paragraph for dosage escalations.

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HOW SUPPLIED

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80 mg (white, capsule shaped tablet debossed with "G" on one side and "S" score line "80" on the other)
- bottles of 100 NDC 55567-057-18
- bottles of 1000 NDC 55567-057-35.

120 mg (white, capsule shaped tablet debossed with "G" on one side and "S" score line "120" on the other)
- bottles of 100 NDC 55567-076-18
- bottles of 1000 NDC 55567-076-35
- blisters of 10 in cartons of 100 NDC 55567-076-06.

160 mg (white, capsule shaped tablet debossed with "G" on one side and "S" score line "160" on the other)
- bottles of 100 NDC 55567-058-18
- bottles of 1000 NDC 55567-058-35.

240 mg (white, capsule shaped tablet debossed with "G" on one side and "S" score line "240" on the other)
- bottles of 100 NDC 55567-059-18
- bottles of 1000 NDC 55567-059-35
- blisters of 10 in cartons of 100 NDC 55567-059-06.

Store at controlled room temperature, between 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

℞ only

Manufactured by:

Genpharm Inc.
Toronto, Ontario
Canada M8Z 2S6
1-800-661-7134

Printed in Canada

004-674 Rev.# 02 Issued September 1999

NDC 55567-059-06

100 tablets
Unit Dose

SOTALOL HCl

TABLETS

240 mg

℞only

10 Blister Strips
of 10 Tablets

GENPHARM INC.

NDC 55567-059-06

100 tablets
Unit Dose

SOTALOL HCl

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004-675 REV:100

NDC 55567-059-06

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Unit Dose

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TABLETS

240 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada M8Z 2S6
1-800-661-7134

10 Blister Strips of 10 Tablets

Each Tablet contains Sotalol HCl 240 mg.

USUAL DOSAGE: See package insert for complete product information.

This unit dose package is not child-resistant.

Store at controlled room temperature, 15°C to 30°C (59°F to 86°F).

APPROVED

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Each Tablet contains Sotalol HCl 120 mg.

USUAL DOSAGE: See package insert for complete product information.

This unit dose package is not child-resistant.

Store at controlled room temperature, 15°C to 30°C (59°F to 86°F).

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NDC 55567-076-06

100 tablets
Unit Dose

SOTALOL HCl

TABLETS

120 mg

℞ only

10 Blister Strips of 10 Tablets

GENPHARM INC.

NDC 55567-076-06

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Rx only

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SOTALOL HCl

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Exp.:XXX XXXX
Mfg. By:
Genpharm Inc.
Toronto, Canada
M8Z 2S6

SOTALOL HCl
TABLET
120 mg
LOT.:XXXXXX
Exp.:XXX XXXX
Mfg. By:
Genpharm Inc.
Toronto, Canada
M8Z 2S6

SOTALOL HCl
TABLET
120 mg
LOT.:XXXXXX
Exp.:XXX XXXX
Mfg. By:
Genpharm Inc.
Toronto, Canada
M8Z 2S6

SOTALOL HCl
TABLET
120 mg
LOT.:XXXXXX
Exp.:XXX XXXX
Mfg. By:
Genpharm Inc.
Toronto, Canada
M8Z 2S6

SOTALOL HCl
TABLET
120 mg
LOT.:XXXXXX
Exp.:XXX XXXX
Mfg. By:
Genpharm Inc.
Toronto, Canada
M8Z 2S6

SOTALOL HCl
TABLET
120 mg
LOT.:XXXXXX
Exp.:XXX XXXX
Mfg. By:
Genpharm Inc.
Toronto, Canada
M8Z 2S6

SOTALOL HCl
TABLET
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LOT.:XXXXXX
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SOTALOL HCl
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Genpharm Inc.
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M8Z 2S6

SOTALOL HCl
TABLET
120 mg
LOT.:XXXXXX
Exp.:XXX XXXX
Mfg. By:
Genpharm Inc.
Toronto, Canada
M8Z 2S6

SOTALOL HCl
TABLET
120 mg
LOT.:XXXXXX
Exp.:XXX XXXX
Mfg. By:
Genpharm Inc.
Toronto, Canada
M8Z 2S6

Each tablet contains:
sotalol hydrochloride . . . . . 240 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-905 REV# 00

NDC 55567-059-35

1000 Tablets

SOTALOL HCl

Tablets

240 mg

Rx only

APPROVED
MAY 1 2000

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-905 REV# 00

Tablets

240 mg

Rx only

APPROVED
MAY 1 2000

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-905 REV# 00

Tablets

240 mg

Rx only

APPROVED
MAY 1 2000

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-905 REV# 00

Tablets

240 mg

Rx only

APPROVED
MAY 1 2000

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

mango

Each tablet contains:
sotalol hydrochloride . . . . . 160 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-903 REV# 00

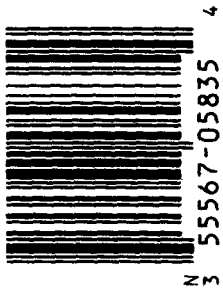
NDC 55567-058-35 1000 Tablets

SOTALOL HCl

Tablets

160 mg

Rx only



MAY 1 2000

APPROVED

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

Each tablet contains:
sotalol hydrochloride . . . . . 160 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-903 REV# 00

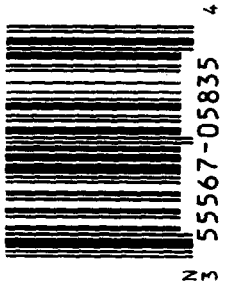
NDC 55567-058-35 1000 Tablets

SOTALOL HCl

Tablets

160 mg

Rx only



MAY 1

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

Each tablet contains:
sotalol hydrochloride . . . . . 120 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

003-604 REV# 00

NDC 55567-076-35 1000 Tablets

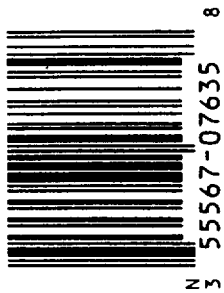
SOTALOL HCl

Tablets

120 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134



MAY 1
APPROVED

Each tablet contains:
sotalol hydrochloride . . . . . 120 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

003-604 REV# 00

NDC 55567-076-35 1000 Tablets

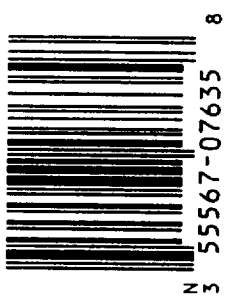
SOTALOL HCl

Tablets

120 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134



MAY 1

Each tablet contains:
sotalol hydrochloride . . . . 80 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-900 REV# 00

NDC 55567-057-35

1000 Tablets

SOTALOL HCI

Tablets

80 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

3 55567-05735 7

APPROVED

MAY

Each tablet contains:
sotalol hydrochloride . . . . 80 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-900 REV# 00

NDC 55567-057-35

1000 Tablets

SOTALOL HCI

Tablets

80 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

3 55567-05735 7

APPROVED

MAY

Each tablet contains:
sotalol hydrochloride . . . . 80 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-900 REV# 00

NDC 55567-057-35

1000 Tablets

SOTALOL HCI

Tablets

80 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

3 55567-05735 7

APPROVED

MAY

Each tablet contains:
sotalol hydrochloride . . . . 80 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-900 REV# 00

NDC 55567-057-35

1000 Tablets

SOTALOL HCI

Tablets

80 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

3 55567-05735 7

APPROVED

MAY

Each tablet contains:
sotalol hydrochloride . . . . . 240 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-904 REV# 00

NDC 55567-059-18 100 Tablets

SOTALOL HCl

Tablets

240 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

APPROVED
MAY 1 2000

N 3 55567-05918 4

Each tablet contains:
sotalol hydrochloride . . . . . 240 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-904 REV# 00

NDC 55567-059-18 100 Tablets

SOTALOL HCl

Tablets

240 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

APPROVED
MAY 1 2000

N 3 55567-05918 4

Each tablet contains:
sotalol hydrochloride . . . . . 240 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-904 REV# 00

NDC 55567-059-18 100 Tablets

SOTALOL HCl

Tablets

240 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

APPROVED
MAY 1 2000

N 3 55567-05918 4

Each tablet contains:
sotalol hydrochloride . . . . . 240 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-904 REV# 00

NDC 55567-059-18 100 Tablets

SOTALOL HCl

Tablets

240 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

APPROVED
MAY 1 2000

N 3 55567-05918 4

Each tablet contains:
sotalol hydrochloride . . . . . 160 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-902 REV# 00

MAY 1 2000
APPROVED

NDC 55567-058-18 100 Tablets

SOTALOL HCl

Tablets

160 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

N 3 55567-05818 7

Each tablet contains:
sotalol hydrochloride . . . . . 160 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-902 REV# 00

MAY 1 2000

NDC 55567-058-18 100 Tablets

SOTALOL HCl

Tablets

160 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

N 3 55567-05818 7

Each tablet contains:
sotalol hydrochloride . . . . . 160 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-902 REV# 00

MAY 1

NDC 55567-058-18 100 Tablets

SOTALOL HCl

Tablets

160 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

N 3 55567-05818 7

Each tablet contains:
sotalol hydrochloride . . . . . 160 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-902 REV# 00

NDC 55567-058-18 100 Tablets

SOTALOL HCl

Tablets

160 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

N 3 55567-05818 7

Each tablet contains:
sotalol hydrochloride . . . . . 120 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

003-600 REV# 00

MAY 1 2000

APPROVED

NDC 55567-076-18 100 Tablets

SOTALOL HCl

Tablets

120 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

N 3 55567-07618 1

Each tablet contains:
sotalol hydrochloride . . . . . 120 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

003-600 REV# 00

MAY 1 2000

APPROVED

NDC 55567-076-18 100 Tablets

SOTALOL HCl

Tablets

120 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

N 3 55567-07618 1

Each tablet contains:
sotalol hydrochloride . . . . . 120 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

003-600 REV# 00

MAY 1

NDC 55567-076-18 100 Tablets

SOTALOL HCl

Tablets

120 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

N 3 55567-07618 1

Each tablet contains:
sotalol hydrochloride . . . . . 120 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

003-600 REV# 00

MAY 1

NDC 55567-076-18 100 Tablets

SOTALOL HCl

Tablets

120 mg

℞ only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

N 3 55567-07618 1

Each tablet contains:
sotalol hydrochloride . . . . . 80 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-898 REV# 00

APPR[illegible]
MAY

NDC 55567-057-18 100 Tablets

SOTALOL HCl

Tablets

80 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

Each tablet contains:
sotalol hydrochloride . . . . . 80 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-898 REV# 00

NDC 55567-057-18 100 Tablets

SOTALOL HCl

Tablets

80 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

MAY 7 2000

Each tablet contains:
sotalol hydrochloride . . . . . 80 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-898 REV# 00

NDC 55567-057-18 100 Tablets

SOTALOL HCl

Tablets

80 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

MAY 7 2000

Each tablet contains:
sotalol hydrochloride . . . . . 80 mg

USUAL DOSAGE: See package insert for complete product information.

Store at controlled room temperature, 15° to 30°C (59° to 86°F). Dispense in a tight, light-resistant container.

002-898 REV# 00

NDC 55567-057-18 100 Tablets

SOTALOL HCl

Tablets

80 mg

Rx only

Manufactured by:
GENPHARM INC.
Toronto, Canada
M8Z 2S6
1-800-661-7134

MAY