HIGHLIGHTS OF PRESCRIBING INFORMATION

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

MULTAQ[®] (dronedarone) tablets, for oral use

Initial U.S. Approval: 2009

WARNING: INCREASED RISK OF DEATH, STROKE AND HEART FAILURE IN PATIENTS WITH DECOMPENSATED HEART FAILURE OR PERMANENT ATRIAL FIBRILLATION See full prescribing information for complete boxed warning.

MULTAQ is contraindicated in patients with symptomatic heart failure with recent decompensation requiring hospitalization or NYHA Class IV heart failure. MULTAQ doubles the risk of death in these patients. (4, 5.1, 14.3)

MULTAQ is contraindicated in patients in atrial fibrillation (AF) who will not or cannot be cardioverted into normal sinus rhythm. In patients with permanent AF, MULTAQ doubles the risk of death, stroke, and hospitalization for heart failure. (4, 5.2, 14.4)

INDICATIONS AND USAGE

MULTAQ is an antiarrhythmic drug indicated to reduce the risk of hospitalization for atrial fibrillation (AF) in patients in sinus rhythm with a history of paroxysmal or persistent AF (1, 14).

– DOSAGE AND ADMINISTRATION

One tablet of 400 mg twice a day with morning and evening meals (2)

– DOSAGE FORMS AND STRENGTHS –

400 mg film-coated tablets (3)

CONTRAINDICATIONS

- Permanent AF (patients in whom normal sinus rhythm will not or cannot be restored) (Boxed Warning, 4)
- Recently decompensated heart failure requiring hospitalization or Class IV heart failure (Boxed Warning, 4)
- Second or third-degree atrioventricular (AV) block or sick sinus syndrome (except when used in conjunction with a functioning pacemaker) (4)
- Bradycardia <50 bpm (4)
- Concomitant use of a strong CYP3A inhibitor (4)
- Concomitant use of erythromycin (4)
- Concomitant use of drugs or herbal products that prolong the QT interval and may induce torsade de pointes (4)
- · Liver or lung toxicity related to the previous use of amiodarone (4)
- QTc interval >500 ms or PR interval >280 ms (4)

FULL PRESCRIBING INFORMATION: CONTENTS*

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- Severe hepatic impairment (4)
- Hypersensitivity to the active substance or to any of the excipients (4)

- WARNINGS AND PRECAUTIONS

- Determine cardiac rhythm at least once every 3 months. If AF is detected discontinue MULTAQ or cardiovert. (5.2)
- Ensure appropriate antithrombotic therapy prior to and throughout MULTAQ use. (5.3)
- Liver injury: If hepatic injury is suspected, discontinue MULTAQ. (5.5)
- If pulmonary toxicity is confirmed, discontinue treatment. (5.6)
- Hypokalemia and hypomagnesemia: Maintain potassium and magnesium levels within the normal range. (5.7)
- Renal impairment: Monitor renal function periodically. (5.9)
- Embryofetal Toxicity: Based on animal data, MULTAQ may cause fetal harm when administered to a pregnant woman. Advise females of reproductive potential of the potential risk to a fetus and to use effective contraception while using MULTAQ. (5.10)

ADVERSE REACTIONS

Most common adverse reactions (≥2%) are diarrhea, nausea, abdominal pain, vomiting, dyspepsia, bradycardia, skin issues (rashes, pruritus, eczema, dermatitis, dermatitis allergic), and asthenia (6)

To report SUSPECTED ADVERSE REACTIONS, contact sanofi-aventis U.S. LLC at 1-800-633-1610 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

Dronedarone is metabolized by CYP3A and is a moderate inhibitor of CYP3A and CYP2D6 and has potentially important pharmacodynamic interactions (7)

- Class I or III antiarrhythmics: Contraindicated. (4, 7.1)
- Digoxin: Consider discontinuation or halve dose of digoxin before treatment and monitor digoxin levels. (7.1, 7.3)
- Calcium channel blockers (CCB): Initiate CCB with low dose and increase after ECG verification of tolerability. (7.1, 7.2, 7.3)
- Beta-blockers: May provoke excessive bradycardia. Initiate with low dose and increase after ECG verification of tolerability. (7.1, 7.3)
- CYP3A inducers: Avoid concomitant use. (7.2)
- Grapefruit juice: Avoid concomitant use. (7.2)
- Statins: Avoid simvastatin doses greater than 10 mg daily. Follow label recommendations for concomitant use of other statins with a CYP3A and P-gp inhibitor like dronedarone. (7.3)
- CYP3A substrates with a narrow therapeutic index (e.g., sirolimus and tacrolimus): Monitor and adjust dosage of concomitant drug as needed when used with MULTAQ. (7.3)
- Warfarin: Monitor INR after initiating dronedarone in patients taking warfarin. (7.3)
- USE IN SPECIFIC POPULATIONS
 Lactation: Do not breastfeed (8.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

Revised: 05/2025

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FULL PRESCRIBING INFORMATION

WARNING: INCREASED RISK OF DEATH, STROKE AND HEART FAILURE IN PATIENTS WITH DECOMPENSATED HEART FAILURE OR PERMANENT ATRIAL FIBRILLATION

In patients with symptomatic heart failure and recent decompensation requiring hospitalization or NYHA Class IV heart failure, MULTAQ doubles the risk of death [see Clinical Studies (14.3)]. MULTAQ is contraindicated in patients with symptomatic heart failure with recent decompensation requiring hospitalization or NYHA Class IV heart failure [see Contraindications (4), Warnings and Precautions (5.1)].

In patients with permanent atrial fibrillation, MULTAQ doubles the risk of death, stroke and hospitalization for heart failure [see Clinical Studies (14.4)]. MULTAQ is contraindicated in patients in atrial fibrillation (AF) who will not or cannot be cardioverted into normal sinus rhythm [see Contraindications (4), Warnings and Precautions (5.2)].

INDICATIONS AND USAGE

MULTAQ® is indicated to reduce the risk of hospitalization for atrial fibrillation in patients in sinus rhythm with a history of paroxysmal or persistent atrial fibrillation (AF) [see Clinical Studies (14)].

DOSAGE AND ADMINISTRATION

The recommended dosage of MULTAQ is 400 mg twice daily in adults. MULTAQ should be taken as one tablet with the morning meal and one tablet with the evening meal.

Treatment with Class I or III antiarrhythmics (e.g., amiodarone, flecainide, propafenone, quinidine, disopyramide, dofetilide, sotalol) or drugs that are strong inhibitors of CYP3A (e.g., ketoconazole) must be stopped before starting MULTAQ [see Contraindications (4)].

Verify that females of reproductive potential are not pregnant prior to initiating MULTAQ [see Warnings and Precautions (5.10), Use in Specific Populations (8.1, 8.3)].

DOSAGE FORMS AND STRENGTHS

MULTAQ 400 mg tablets are provided as white film-coated tablets for oral administration, oblong-shaped, engraved with a double wave marking on one side and "4142" code on the other side.

CONTRAINDICATIONS

- MULTAQ is contraindicated in patients with:
- · Permanent atrial fibrillation (patients in whom normal sinus rhythm will not or cannot be restored) [see Boxed Warning, Warnings and Precautions (5.2)]
- · Symptomatic heart failure with recent decompensation requiring hospitalization or NYHA Class IV symptoms [see Boxed Warning, Warnings and Precautions (5.1)]
- · Second or third-degree atrioventricular (AV) block, or sick sinus syndrome (except when used in conjunction with a functioning pacemaker)
- Bradycardia <50 bpm
- Concomitant use of strong CYP3A inhibitors, such as ketoconazole, itraconazole, voriconazole, cyclosporine, telithromycin, clarithromycin, nefazodone, and ritonavir [see Drug Interactions (7.2)]
- Concomitant use of erythromycin [see Clinical Pharmacology (12.3)]
- · Concomitant use of drugs or herbal products that prolong the QT interval and might increase the risk of torsade de pointes, such as phenothiazine antipsychotics, tricyclic antidepressants, certain oral macrolide antibiotics, and Class I and III antiarrhythmics
- · Liver or lung toxicity related to the previous use of amiodarone
- QTc interval >500 ms or PR interval >280 ms
- Severe hepatic impairment
- Hypersensitivity to the active substance or to any of the excipients WARNINGS AND PRECAUTIONS

Cardiovascular Death in NYHA Class IV or Decompensated Heart Failure 5.1

MULTAQ is contraindicated in patients with NYHA Class IV heart failure or symptomatic heart failure with recent decompensation requiring hospitalization because it doubles the risk of death.

Cardiovascular Death and Heart Failure in Permanent AF 5.2

MULTAQ doubles the risk of cardiovascular death (largely arrhythmic) and heart failure events in patients with permanent AF. Patients treated with dronedarone should undergo monitoring of cardiac hyptim no less often than every 3 months. Cardiovert patients who are in atrial fibrillation (if clinically indicated) or discontinue MULTAQ. MULTAQ offers no benefit in subjects in permanent AF.

5.3 Increased Risk of Stroke in Permanent AF

In a placebo-controlled study in patients with permanent atrial fibrillation, dronedarone was associated with an increased risk of stroke, particularly in the first two weeks of therapy [see Clinical Studies (14.4)]. MULTAQ should only be initiated in patients in sinus rhythm who are receiving appropriate antithrombotic therapy [see Drug Interactions (7.3)]. 5.4 New Onset or Worsening Heart Failure

New onset or worsening of heart failure has been reported during treatment with MULTAQ in the postmarketing setting. In a placebo-controlled study in patients with permanent AF increased rates of heart failure were observed in patients with normal left ventricular function and no history of symptomatic heart failure, as well as those with a history of heart failure or left ventricular dysfunction. Advise patients to consult a physician if they develop signs or symptoms of heart failure, such as weight gain, dependent edema, or increasing shortness of breath. If heart failure develops or worsens and requires hospitalization, discontinue MULTAQ.

5.5 Liver İnjury

Hepatocellular liver injury, including acute liver failure requiring transplant, has been reported in patients treated with MULTAQ in the postmarketing setting. Advise patients treated with MULTAQ to report immediately symptoms suggesting hepatic injury (such as anorexia, nausea, vomiting, fever, malaise, fatigue, right upper quadrant pain, jaundice, dark urine, or itching). Consider obtaining periodic hepatic serum enzymes, especially during the first 6 months of treatment, but it is not known whether routine periodic monitoring of serum enzymes will prevent the development of severe liver injury. If hepatic injury is suspected, promptly discontinue MULTAQ and test serum enzymes, aspartate aminotransferase (AST), alanine aminotransferase (ALT) and alkaline phosphatase, as well as serum bilirubin, to establish whether there is liver injury. If liver injury is found, institute appropriate treatment and investigate the probable cause. Do not restart MULTAQ in patients without another explanation for the observed liver injury.

5.6 Pulmonary Toxicity

Cases of interstitial lung disease including pneumonitis and pulmonary fibrosis have been reported in patients treated with MULTAQ in the postmarketing setting [see Adverse Reactions (6.2)]. Onset of dyspnea or non-productive cough may be related to pulmonary toxicity and patients should be carefully evaluated clinically. If pulmonary toxicity is confirmed, MULTAQ should be discontinued.

5.7 Hypokalemia and Hypomagnesemia with Potassium-Depleting Diuretics

Hypokalemia or hypomagnesemia may occur with concomitant administration of potassium-depleting diuretics. Potassium levels should be within the normal range prior to administration of MULTAQ and maintained in the normal range during administration of MULTAQ.

5.8 QT Interval Prolongation

MULTAQ is associated with concentration-dependent QTcF interval prolongation (estimated QTcF increase for 400 mg BID with food is 15 ms) [see Clinical Pharmacology (12.2)]. If the QTc interval is >500 ms, discontinue MULTAQ [see Contraindications (4)].

5.9 Renal Impairment and Failure

Marked increase in serum creatinine, pre-renal azotemia and acute renal failure, often in the setting of heart failure [see Warnings and Precautions (5.4)] or hypovolemia, have been reported in patients taking MULTAQ. In most cases, these effects appear to be reversible upon drug discontinuation and with appropriate medical treatment. Monitor renal function periodically.

Small increases in creatinine levels (about 0.1 mg/dL) following dronedarone treatment initiation have been shown to be a result of inhibition of creatinine's tubular secretion. The elevation has a rapid onset, reaches a plateau after 7 days and is reversible after discontinuation.

5.10 Embryofetal Toxicity

Based on animal data, MULTAQ may cause fetal harm when administered to a pregnant woman. Dronedarone caused multiple visceral and skeletal malformations in animal reproduction studies when pregnant rats and rabbits were administered dronedarone at doses equivalent to recommended human doses. Advise pregnant women of the potential risk to the fetus. Verify that females of reproductive potential are not pregnant prior to initiating MULTAQ. Advise females of reproductive potential to use effective contraception during treatment with MULTAQ and for 5 days (about 6 half-lives) after the final dose [see Use in Specific Populations (8.1, 8.3)].

ADVERSE REACTIONS

- The following safety concerns are described elsewhere in the label:
- New or worsening heart failure [see Warnings and Precautions (5.4)]
 Liver Injury [see Warnings and Precautions (5.5)]
- Pulmonary toxicity [see Warnings and Precautions (5.6)]
- · Hypokalemia and hypomagnesemia with potassium-depleting diuretics [see Warnings and Precautions (5.7)]
- QT prolongation [see Warnings and Precautions (5.8)]

6.1 Clinical Trials Experience

The safety evaluation of dronedarone 400 mg twice daily in patients with AF or AFL is based on 5 placebo-controlled studies, ATHENA, EURIDIS, ADONIS, ERATO and DAFNE. In these studies, a total of 6285 patients were randomized and treated, 3282 patients with MULTAQ 400 mg twice daily, and 2875 with placebo. The mean exposure across studies was 12 months. In ATHENA, the maximum follow-up was 30 months.

In clinical trials, premature discontinuation because of adverse reactions occurred in 11.8% of the dronedarone-treated patients and in 7.7% of the placebo-treated group. The most common reasons for discontinuation of therapy with MULTAQ were gastrointestinal disorders (3.2% vs 1.8% in the placebo group) and QT prolongation (1.5% vs 0.5% in the placebo group).

The most frequent adverse reactions observed with MULTAQ 400 mg twice daily in the 5 studies were diarrhea, nausea, abdominal pain, vomiting, and asthenia.

Table 1 displays adverse reactions more common with dronedarone 400 mg twice daily than with placebo in AF or AFL patients, presented by system organ class and by decreasing order of frequency. Adverse laboratory and ECG effects are presented separately in Table 2.

Table 1: Adverse Drug Reactions	that Occurred	in at Least 1% of Patients and were
More	Frequent than	Placebo

	Placebo	Dronedarone 400 mg twice daily	
	(N=2875)	(N=3282)	
Gastrointestinal			
Diarrhea	6%	9%	
Nausea	3%	5%	
Abdominal pain	3%	4%	
Vomiting	1%	2%	
Dyspeptic signs and symptoms	1%	2%	
General			
Asthenic conditions	5%	7%	
Cardiac			
Bradycardia	1%	3%	
Skin and subcutaneous tissue			
Including rashes (generalized, macular, maculo-papular, erythematous), pruritus, eczema, dermatitis, dermatitis allergic	3%	5%	

Photosensitivity reaction and dysgeusia have also been reported at an incidence less than 1% in patients treated with MULTAQ.

The following laboratory data/ECG parameters were reported with MULTAQ 400 mg twice daily.

Table 2: Laboratory Data/ECG Parameters Not Necessarily Reported as Adverse Events

	Placebo	MULTAQ 400 mg twice daily
	(N=2875)	(N=3282)
Early increases in creatinine ≥10%	21%	51%
	(N=2237)	(N=2701)
QTc prolonged	19%	28%

Assessment of demographic factors such as gender or age on the incidence of treatment-emergent adverse events did not suggest an excess of adverse events in any particular subgroup.

In randomized clinical trials of patients with paroxysmal or persistent atrial fibrillation, one case of torsade de pointes was reported in patients treated with MULTAQ (2301 patients) versus no cases of torsade de pointes in patients treated with placebo (2327) in the ATHENA study. No cases of torsade de pointes were reported in patients treated with MULTAQ (828 patients) or placebo (409 patients) in the EURIDIS and ADONIS studies [see Clinical Studies (14)].

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of MULTAQ. Because these reactions are reported voluntarily from a population of an unknown size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Cardiac: New or worsening heart failure [see Warnings and Precautions (5.4)]

Atrial flutter with 1:1 atrioventricular conduction has been reported very rarely.

Hepatic: Liver injury [see Warnings and Precautions (5.5)]

Respiratory: Interstitial lung disease including pneumonitis and pulmonary fibrosis [see Warnings and Precautions (5.6)]

Immune: Anaphylactic reactions including angioedema

Vascular: Vasculitis, including leukocytoclastic vasculitis 7 DRUG INTERACTIONS

7.1 Pharmacodynamic Interactions

Drugs Prolonging the QT Interval (Inducing Torsade de Pointes) Coadministration of drugs prolonging the QT interval (such as certain phenothiazines, tricyclic antidepressants, certain macrolide antibiotics, and Class I and III antiarrhythmics) is contraindicated because of the potential risk of torsade de pointes-type ventricular tachycardia [see Contraindications (4), Clinical Pharmacology (12.3)].

Dígo<u>xin</u>

In the ANDROMEDA (patients with recently decompensated heart failure) and PALLAS (patients with permanent AF) trials baseline use of digoxin was associated with an increased risk of arrhythmic or sudden death in dronedarone-treated patients compared to placebo. In patients not taking digoxin, no difference in risk of sudden death was observed in the dronedarone versus placebo groups [see Clinical Studies (14.3)]

Digoxin can potentiate the electrophysiologic effects of dronedarone (such as decreased AV-node conduction). Dronedarone increases exposure to digoxin [see Drug Interactions (7.3), Clinical Pharmacology (12.3)].

Consider discontinuing digoxin. If digoxin treatment is continued, halve the dose of digoxin, monitor serum levels closely, and observe for toxicity.

Calcium Channel Blockers

Calcium channel blockers with depressant effects on the sinus and AV nodes could potentiate dronedarone's effects on conduction. Give a low dose of calcium channel blockers initially and increase only after ECG verification of good

tolerability [see Drug Interactions (7.3), Clinical Pharmacology (12.3)].

Beta-Blockers

In clinical trials, bradycardia was more frequently observed when dronedarone was given in combination with beta-blockers.

Give a low dose of beta-blockers initially, and increase only after ECG verification of good tolerability [see Drug Interactions (7.3), Clinical Pharmacology (12.3)]. 7.2 Effects of Other Drugs on Dronedarone

Ketoconazole and Other Potent CYP3A Inhibitors

Concomitant use of ketoconazole as well as other potent CYP3A inhibitors such as itraconazole, voriconazole, ritonavir, clarithromycin, and nefazodone is contraindicated because exposure to dronedarone is significantly increased [see Contraindications (4), Clinical Pharmacology (12.3)]. Grapefruit Juice

Patients should avoid grapefruit juice beverages while taking MULTAQ because exposure to dronedarone is significantly increased [see Clinical Pharmacology (12.3)].

Rifampin and Other CYP3A Inducers

Avoid rifampin or other CYP3A inducers such as phenobarbital, carbamazepine, phenytoin, and St. John's wort because they decrease exposure to dronedarone significantly [see Clinical Pharmacology (12.3)].

Calcium Channel Blockers

Verapamil and diltiazem are moderate CYP3A inhibitors and increase dronedarone exposure. Give a low dose of calcium channel blockers initially and increase only after ECG verification of good tolerability [see Drug Interactions (7.3), Clinical Pharmacology (12.3)].

7.3 Effects of Dronedarone on Other Drugs

Simvastatin

Dronedarone increased simvastatin/simvastatin acid exposure. Avoid doses greater than 10 mg once daily of simvastatin [see Clinical Pharmacology (12.3)].

Other Statins

Because of multiple mechanisms of interaction with statins (CYPs and transporters), follow statin label recommendations for use with CYP3A and P-gp inhibitors such as dronedarone.

Calcium Channel Blockers

Dronedarone increased the exposure of calcium channel blockers (verapamil, diltiazem or nifedipine). Give a low dose of calcium channel blockers initially and increase only after ECG verification of good tolerability [see Drug Interactions (7.1), Clinical Pharmacology (12.3)].

Sirolimus, Tacrolimus, and Other CYP3A Substrates with Narrow Therapeutic Range

Dronedarone can increase plasma concentrations of tacrolimus, sirolimus, and other CYP3A substrates with a narrow therapeutic range when given orally. Monitor plasma concentrations and adjust dosage appropriately.

Beta-Blockers and Other CYP2D6 Substrates

Dronedarone increased the exposure of propranolol and metoprolol. Give low doses of beta-blockers initially, and increase only after ECG verification of good tolerability. Other CYP2D6 substrates, including other beta-blockers, tricyclic antidepressants, and selective serotonin reuptake inhibitors (SSRIs) may have increased exposure upon coadministration with dronedarone [see Drug Interactions (7.1), Ćlinical Pharmacology (12.3)].

P-glycoprotein Substrates

Digoxin

Dronedarone increased digoxin exposure by inhibiting the P-gp transporter. Consider discontinuing digoxin. If digoxin treatment is continued, halve the dose of digoxin, monitor serum levels closely, and observe for toxicity [see Drug Interactions (7.1), Clinical Pharmacology (12.3)]. Dabigatran

Dronedarone increases dabigatran plasma exposures by inhibiting the P-gp transporter [see Clinical Pharmacology (12.3)]. In patients with moderate renal impairment (CrCL 30–50 mL/min), reduce the dose of dabigatran to 75 mg twice daily when concomitantly administered with dronedarone. In patients with severe renal impairment (CrCL 15-30 mL/min), concomitant use of dronedarone with dabigatran should be avoided.

Warfarin

When coadministered with dronedarone exposure to S-warfarin was slightly higher than when warfarin was administered alone. There were no clinically significant increases in INR [see Clinical Pharmacology (12.3)].

More patients experienced clinically significant INR elevations (≥5) usually within 1 week after starting dronedarone versus placebo in patients taking oral anticoagulants in ATHENA. However, no excess risk Postmarketing cases of increased INR with or without bleeding events have been reported in

warfarin-treated patients initiated on dronedarone. Monitor INR after initiating dronedarone in patients taking warfarin

USE IN SPECIFIC POPULATIONS 8

Pregnancy 8.1

Risk Summary

MULTAQ may cause fetal harm when administered to a pregnant woman. In animal studies, dronedarone administered to pregnant rats and rabbits during the period of organogenesis caused multiple visceral (rats) and skeletal malformations (rats and rabbits) when administered at doses equivalent to or lower than the maximum recommended human dose (MRHD) (see Data). There are no available data on dronedarone use in pregnant women to evaluate for a drug-associated risk of major birth defects or miscarriage or other adverse maternal or fetal outcomes. Advise pregnant women of the potential risk to a fetus. The background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Data Animal data

When pregnant rats in embryofetal development studies received dronedarone at oral doses greater than or equal to the MRHD (on a mg/m² basis) during organogenesis (gestational days 6 to 15) fetuses had increased rates of external, visceral and skeletal malformations (cranioschisis, cleft palate, incomplete evagination of pineal body, brachygnathia, partially fused carotid arteries, truncus arteriosus, abnormal lobation of the liver, partially duplicated inferior vena cava, brachydactyly, ectrodactyly, syndactyly, and anterior and/or posterior club feet). When pregnant rabbits in embryofetal development studies received dronedarone, at a dose approximately half the MRHD (on a mg/m² basis) during organogenesis (gestational days 6 to 18), fetuses had an increased rate of skeletal abnormalities (anomalous ribcage and vertebrae, pelvic asymmetry) at doses ≥20 mg/kg (the lowest dose tested and approximately half the MRHD on a mg/m² basis).

Actual animal doses: rat (\geq 80 mg/kg/day); rabbit (\geq 20 mg/kg)

8.2 Lactation

Risk Summary There are no available data on the presence of dronedarone in human milk, the effects on the breastfed infant, or the effect on milk production. Dronedarone and its metabolites are present in rat milk. During a prenatal and postnatal study in rats, maternal dronedarone administration was associated with minor reduced body-weight gain in the offspring. When a drug is present in animal milk, it is likely that the drug will be present in human milk. Because of the potential for serious adverse reactions in breastfed infants from MULTAQ like the adverse effects in adults, (liver injury, and pulmonary toxicity), advise patients not to breastfeed during treatment with MULTAQ and for 5 days (about 6 half-lives) after the

last dose. 8.3 Females and Males of Reproductive Potential

MULTAQ may cause fetal harm when administered to pregnant women [see Use in Specific Populations (8.1)].

Pregnancy Testing

Verify that females of reproductive potential are not pregnant prior to initiating MULTAQ.

Contraception

Advise female patients of reproductive potential to use effective contraception during treatment with MULTAQ and for 5 days after the final dose.

Pediatric Use 8.4

Safety and efficacy in children below the age of 18 years have not been established.

Geriatric Use 8.5

More than 4500 patients with AF or AFL aged 65 years or above were included in the MULTAQ clinical program (of whom more than 2000 patients were 75 years or older). Efficacy and safety were similar in elderly and younger patients.

8.6 Renal Impairment

Patients with renal impairment were included in clinical studies. Because renal excretion of dronedarone is minimal [see Clinical Pharmacology (12.3)], no dosing alteration is needed. 8.7 Hepatic Impairment

Dronedarone is extensively metabolized by the liver. There is little clinical experience with moderate hepatic impairment and none with severe impairment. No dosage adjustment is recommended for moderate hepatic impairment [see Contraindications (4), Clinical Pharmacology (12.3)].

OVERDOSAGE 10

In the event of overdosage, monitor the patient's cardiac rhythm and blood pressure. Treatment should be supportive and based on symptoms.

It is not known whether dronedarone or its metabolites can be removed by dialysis (hemodialysis, peritoneal dialysis or hemofiltration). There is no specific antidote available.

11 DESCRIPTION

Dronedarone HCl is a benzofuran derivative with the following chemical name:

N-{2-butyl-3-[4-(3-dibutylaminopropoxy)benzoyl]benzofuran-5-yl] methanesulfonamide, hydrochloride. Dronedarone HCI is a white fine powder that is practically insoluble in water and freely soluble in

methylene chloride and methanol. Its empirical formula is C31H44N2O5 S, HCI with a relative molecular mass of 593.2. Its structural formula is:



MULTAQ is provided as tablets for oral administration.

Each tablet of MULTAQ contains 400 mg of dronedarone (expressed as base).

The inactive ingredients are:

Core of the tablets: Colloidal silicon dioxide, crospovidone, hypromellose, lactose monohydrate, magnesium stearate, poloxamer 407, starch.

Coating/polishing of the tablets: Carnauba wax, hypromellose, polyethylene glycol 6000, titanium dioxide.

CLINICAL PHARMACOLOGY 12

12.1 Mechanism of Action

The mechanism of action of dronedarone is unknown. Dronedarone has antiarrhythmic properties belonging to all four Vaughan-Williams classes, but the contribution of each of these activities to the clinical effect is unknown.

12.2 Pharmacodynamics

Electrophysiological Effects The effect of dronedarone on 12-lead ECG parameters was investigated in healthy subjects following repeated oral doses up to 1600 mg twice daily for 10 days. Concentration-dependent increases in QTCF and PR were observed and the estimated increases for 400 mg BID with food are 15 and 12 ms, respectively. The contribution of dronedarone and the N-debutyl metabolite to observed changes is unknown. DAFNE Study

DAFNE vas a dose-response study in patients with recurrent AF, evaluating the effect of dronedarone in comparison with placebo in maintaining sinus rhythm. The doses of dronedarone in this study were 400, 600, and 800 mg twice a day. In this small study, doses above 400 mg were not more effective and were less well tolerated.

12.3 Pharmacokinetics

Dronedarone is extensively metabolized and has low systemic bioavailability; its bioavailability is increased by meals. Its elimination half-life is 13 to 19 hours.

Absorption

Because of presystemic first pass metabolism the absolute bioavailability of dronedarone without food is low, about 4%. It increases to approximately 15% when dronedarone is administered with a high fat meal. After oral administration in fed conditions, peak plasma concentrations of dronedarone and the main circulating active metabolite (N-debutyl metabolite) are reached within 3 to 6 hours. After repeated administration of 400 mg twice daily, steady state is reached within 4 to 8 days of treatment and the mean accumulation ratio for droned rone ranges from 2.6 to 4.5. The steady-state C_{max} and exposure of the main N-debutyl metabolite is similar to that of the parent compound. The pharmacokinetics of dronedarone and its N-debutyl metabolite both deviate moderately from dose proportionality: a doubling in dose results in approximately 2.5 to 3.0-fold the Cmax and AUC.

Distribution

The in vitro plasma protein binding of dronedarone and its N-debutyl metabolite is >98% and not saturable. Both compounds bind mainly to albumin. After intravenous (IV) administration the volume of distribution at steady state is about 1400 L.

Metabolism

Dronedarone is extensively metabolized, mainly by CYP3A. The initial metabolic pathway includes N-debutylation to form the active N-debutyl metabolite, oxidative deamination to form the inactive propanoic acid metabolite, and direct oxidation. The metabolites undergo further metabolism to yield over 30 uncharacterized metabolites. Monoamine oxidases contribute partially to the metabolism of the active metabolite of dronedarone.

Excretion/Elimination

In a mass balance study with orally administered dronedarone (14C-labeled) approximately 6% of the labeled dose was excreted in urine, mainly as metabolites (no unchanged compound excreted in urine), and 84% was excreted in feces, mainly as metabolites. Dronedarone and its N-debutyl active metabolite accounted for less than 15% of the resultant radioactivity in the plasma.

After IV administration the plasma clearance of dronedarone ranges from 130 to 150 L/h. The elimination half-life of dronedarone ranges from 13 to 19 hours.

Special Populations Gender

Dronedarone exposures are on average 30% higher in females than in males.

Race

Pharmacokinetic differences related to race were not formally assessed. However, based on a cross study comparison, following single dose administration (400 mg), Asian males (Japanese) have about twice the exposure than Caucasian males. The pharmacokinetics of dronedarone in other races has not been assessed.

Elderly

Of the total number of subjects in clinical studies of dronedarone, 73% were 65 years of age and over and 34% were 75 and over. In patients aged 65 years old and above, dronedarone exposures are 23% higher than in patients less than 65 years old [see Use in Specific Populations (8.5)]. Hepatic impairment

In subjects with moderate hepatic impairment, the mean dronedarone exposure increased by 30% relative to subjects with normal hepatic function and the mean exposure of the N-debutyl metabolite decreased by about 50%. Pharmacokinetic data were significantly more variable in subjects with moderate hepatic impairment.

The effect of severe hepatic impairment on the pharmacokinetics of dronedarone was not assessed [see Contraindications (4)].

Renal impairment

Consistent with the low renal excretion of dronedarone, no pharmacokinetic difference was observed in subjects with mild or moderate renal impairment compared to subjects with normal renal function [see Use in Specific Populations (8.6)]. No pharmacokinetic difference was observed in patients with mild to severe renal impairment in comparison with patients with normal renal function. Drug Interactions

Dronedarone is metabolized primarily by CYP3A and is a moderate inhibitor of CYP3A and CYP2D6. Dronedarone has no significant potential to inhibit CYP1A2, CYP2C9, CYP2C19, CYP2C8 and CYP2B6. It has the potential to inhibit P-glycoprotein (P-gp) transport. Dronedarone inhibits in vivo the tubular secretion of creatinine a substrate of the organic cation transporter (OCT2) [see Warnings and Precautions (5.9)].

In vitro dronedarone and the metabolites SR35021 and SR90154 show no significant potential to inhibit the organic anion transporters OAT1 and OAT3 or the organic cation transporter OCT1. However, in vitro data indicate that SR90154 is likely to inhibit the organic anion transporting polypeptides (OATP1B1, OATP1B3) in vivo.

Pharmacokinetic measures indicating the magnitude of these interactions are presented in Figure 1 (impact of coadministered drugs on dronedarone) and Figure 2 (impact of dronedarone on coadministered drugs).

Figure 1: The Impact of Coadministered Drugs on the Pharmacokinetics of Dronedarone and Recommendations for Dronedarone Coadministration or Dose Adjustment



Figure 2: The Impact of Dronedarone on Coadministered Drugs and Recommendations for Dose Adjustment of Coadministered Drug



NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In studies in which dronedarone was administered to rats and mice for up to 2 years at doses of up to 70 mg/kg/day and 300 mg/kg/day, respectively, there was an increased incidence of histiocytic sarcomas in dronedarone-treated male mice (300 mg/kg/day or 5 x the maximum recommended human dose based on AUC comparisons), mammary adenocarcinomas in dronedarone-treated female mice (300 mg/kg/day or 8 × MRHD based on AUC comparisons) and hemangiomas in dronedarone-treated male rats (70 mg/kg/day or 5 × MRHD based on AUC comparisons).

Dronedarone did not demonstrate genotoxic potential in the in vivo mouse micronucleus test, the Ames

bacterial mutation assay, the unscheduled DNA synthesis assay, or an in vitro chromosomal aberration assay in human lymphocytes. S-9 processed dronedarone, however, was positive in a V79 transfected Chinese hamster V79 assay.

In fertility studies conducted with female rats, dronedarone given prior to breeding and implantation caused an increase in irregular estrus cycles and cessation of cycling at doses ≥10 mg/kg (equivalent to 0.12 × the MRHD on a mg/m² basis).

Corpora lutea, implantations and live fetuses were decreased at 100 mg/kg (equivalent to 1.2 × the MRHD on a mg/m² basis). There were no reported effects on mating behavior or fertility of male rats at doses of up to 100 mg/kg/day.

13.3 Developmental Toxicity

Dronedarone was teratogenic in rats given oral doses ≥80 mg/kg/day (a dose equivalent to the MRHD on a mg/m² basis), with fetuses showing external, visceral and skeletal malformations (cranioschisis, cleft palate, incomplete evagination of pineal body, brachygnathia, partially fused carotid arteries, truncus arteriosus, abnormal lobation of the liver, partially duplicated inferior vena cava, brachydactyly, ectrodactyly, syndactyly, and anterior and/or posterior club feet). In rabbits, dronedarone caused an increase in skeletal abnormalities (anomalous ribcage and vertebrae, pelvic asymmetry) at doses ≥20 mg/kg (the lowest dose tested and approximately half the MRHD on a mg/m² basis). 14 CLINICAL STUDIES

14.1 ATHENA

ATHENA was a multicenter, multinational, double blind, and randomized placebo-controlled study of dronedarone in 4628 patients with a recent history of AF/AFL who were in sinus rhythm or who were to be converted to sinus rhythm. The objective of the study was to determine whether dronedarone could delay death from any cause or hospitalization for cardiovascular reasons.

Initially patients were to be ≥70 years old, or <70 years old with at least one risk factor (including hypertension, diabetes, prior cerebrovascular accident, left atrial diameter ≥50 mm or LVEF <0.40). The inclusion criteria were later charged such that patients were to be \geq 75 years old or \geq 70 years old with at least one risk factor. Patients had to have both AF/AFL and sinus rhythm documented within the previous 6 months. Patients could have been in AF/AFL or in sinus rhythm at the time of randomization, but patients not in sinus rhythm were expected to be either electrically or chemically converted to normal sinus rhythm after anticoagulation.

Subjects were randomized and treated for up to 30 months (median follow-up: 22 months) with either MULTAQ 400 mg twice daily (2301 patients) or placebo (2327 patients), in addition to conventional therapy for cardiovascular diseases that included beta-blockers (71%), ACE inhibitors or angiotensin Il receptor blockers (ARBs) (69%), digoxin (14%), calcium antagonists (14%), statins (39%), oral anticoagulants (60%), aspirin (44%), other chronic antiplatelet therapy (6%) and diuretics (54%)

The primary endpoint of the study was the time to first hospitalization for cardiovascular reasons or reasons, and time to cardiovascular death and time to all causes of death were also explored.

Patients ranged in age from 23 to 97 years; 42% were 75 years old or older. Forty-seven percent (47%) of patients were female and a majority was Caucasian (89%). Seventy-one percent (71%) of those enrolled had no history of heart failure. The median ejection fraction was 60%. Twenty-nine percent (29%) of patients had heart failure, mostly NYHA class II (17%). The majority had hypertension (86%) and structural heart disease (60%)

Results are shown in Table 3. MULTAQ reduced the combined endpoint of cardiovascular hospitalization or death from any cause by 24.2% when compared to placebo. This difference was entirely attributable to its effect on cardiovascular hospitalization, principally hospitalization related to AF.

Other endpoints, death from any cause and first hospitalization for cardiovascular reasons, are shown in Table 3. Secondary endpoints count all first events of a particular type, whether or not they were preceded by a different type of event.

	Placebo	MULTAQ 400 mg BID			
	(N=2327)	(N=2301)	HR	95% CI	p-Value
Primary endpoint					
Cardiovascular hospitalization or death from any cause	913 (39.2%)	727 (31.6%)	0.76	[0.68–0.83]	<0.0001
Components of the endpoint (as first event)					
 Cardiovascular hospitalization 	856 (36.8%)	669 (29.1%)			
Death from any cause	57 (2.4%)	58 (2.5%)			
Secondary endpoints (any time in study)					
 Death from any cause 	135 (5.8%)	115 (5.0%)	0.86	[0.67–1.11]	0.24
 Cardiovascular hospitalization 	856 (36.8%)	669 (29.1%)	0.74	[0.67–0.82]	<0.0001
Components of the cardiovascular hospitalization endpoint (as first event)					

Table 3: Incidence of Endpoint Events

Table 3: Incidence of Endpoint Events (continued)

	Placebo	MULTAQ 400 mg BID			
	(N=2327)	(N=2301)	HR	95% CI	p-Value
AF and other supraventricular rhythm disorders	456 (19.6%)	292 (12.7%)	0.61	[0.53–0.71]	<0.0001
Other	400 (17.2%)	377 (16.4%)	0.89	[0.77–1.03]	0.11

The Kaplan-Meier cumulative incidence curves showing the time to first event are displayed in Figure 3. The event curves separated early and continued to diverge over the 30-month follow-up period. Figure 3: Kaplan-Meier Cumulative Incidence Curves from Randomization to First Cardiovascular Hospitalization or Death from Any Cause



Reasons for hospitalization included major bleeding (1% in both groups), syncope (1% in both groups), and ventricular arrhythmia (<1% in both groups).

The reduction in cardiovascular hospitalization or death from any cause was generally consistent in all subgroups based on baseline characteristics or medications (ACE inhibitors or ARBs: beta-blockers. digoxin, statins, calcium channel blockers, diuretics) (see Figure 4).

Figure 4: Relative Risk (MULTAQ vs Placebo) Estimates with 95% Confidence Intervals According to Selected Baseline Characteristics: First Cardiovascular Hospitalization or Death from Any Cause

Characteristic	N	RR [95% CI] (a)	P-value	(b)	1	
Age (years)						
<65	873	0.89 [0.71;1.11]				
65-<75	1830	0.71 0.60 0.83				
>=75	1925	0.75 0.65 0.87	0.27		-0-	
Gender						
Male	2459	0.74 [0.64:0.85]				
Female		0.77 0.67 0.89	0.65			
Presence of AF/AFL						
Yes	1155	0.74 [0.61;0.91]				
No		0.76 [0.68:0.85]	0.85		-	
Structural Heart Diseas		0.70[0.00,0.05]	0.05			
Yes		0.76 [0.67;0.85]			-	
No		0.77 [0.65:0.92]	0.85			
NYHA	1055	0.77[0.05,052]	0.05			
Class I or II	1165	0.80 [0.67:0.96]				
Class III		0.56 [0.38:0.82]				
No CHF		0.76 [0.68:0.86]	0.22			
LVEF(%)	5205	0.70[0.00,0.00]	0.22		-	
<35	170	0.68 [0.44;1.03]				
>=35		0.76 [0.69:0.84]	0.58		-	
Beta blocking agents	4305	0.70[0.09,0.04]	0.56		-	
Yes	2260	0.78 [0.69;0.87]			+	
No		0.71 [0.58;0.86]	0.41			
ACE inhibitors or ARB		0.71[0.58,0.80]	0.41		-	
Yes		0.74 [0.66;0.83]			+	
No		0.79 0.66:0.95	0.59		-	
Digitalis	1412	0.79[0.00,0.95]	0.59			
Yes	620	0.76 [0.59:0.98]				
No		0.76 [0.68:0.84]	0.96			
	3999	0.76[0.68,0.84]	0.96		-	
Calcium antagonists (c)	620	0 62 [0 48-0 82]				
Yes	2000	0.63 [0.48;0.82]	0.16			
INO	3990	0.78 [0.70;0.87]	0.15		+	
				0.1	1.0	10.
					Dronedarone Better	Placebo Better

(a) Determined from Cox regression model

(b) P-value of interaction between baseline characteristics and treatment based on Cox regression model

(c) Calcium antagonists with heart rate lowering effects restricted to diltiazem, verapamil and bepridil 14.2 EURIDIS and ADONIS

In EURIDIS and ADONIS, a total of 1237 patients in sinus rhythm with a prior episode of AF or AFL were randomized in an outpatient setting and treated with either MULTAQ 400 mg twice daily (n=828) or placebo (n=409) on top of conventional therapies (including oral anticoagulants, beta-blockers, ACE inhibitors or ARBs, chronic antiplatelet agents, diuretics, statins, digoxin, and calcium channel blockers). Patients had at least one ECG-documented AF/AFL episode during the 3 months prior to study entry but were in sinus rhythm for at least one hour. Patients ranged in age from 20 to 88 years, with the majority being Caucasian (97%), male (70%) patients. The most common comorbidities were hypertension (56.8%) and structural heart disease (41.5%), including coronary heart disease (21.8%). Patients were followed for 12 months.

In the pooled data from EURIDIS and ADONIS as well as in the individual trials, dronedarone delayed the time to first recurrence of AF/AFL (primary endpoint), lowering the risk of first AF/AFL recurrence during the 12-month study period by about 25%, with an absolute difference in recurrence rate of about 11% at 12 months.

14.3 ANDROMEDA

Patients recently hospitalized with symptomatic heart failure and severe left ventricular systolic dysfunction (wall motion index ≤1.2) were randomized to either MULTAQ 400 mg twice daily or matching placebo, with a primary composite end point of all-cause mortality or hospitalization for heart failure. Patients enrolled in ANDROMEDA were predominantly NYHA Class II (40%) and III (57%), and only 25% had AF at randomization. After enrollment of 627 patients and a median follow-up of 63 days, the trial was terminated because of excess mortality in the dronedarone group. Twenty-five (25) patients in the dronedarone group died versus 12 patients in the placebo group (hazard ratio 2.13; 95% Cl: 1.07 to 4.25). The main reason for death was worsening heart failure. Baseline digoxin therapy was reported in 6/16 dronedarone patients versus 1/16 placebo patients who died of arrhythmia. In patients without baseline use of digoxin, no excess risk of arrhythmic death was observed in the dronedarone versus placebo groups.

There were also excess hospitalizations for cardiovascular reasons in the dronedarone group (71 vs 51 for placebo) [see Boxed Warning, Contraindications (4)].

14.4 PALLAS

Patients with permanent AF (AF documented in 2 weeks prior to randomization and at least 6 months prior to randomization in whom cardioversion had failed or was not planned) and additional risk factors for thromboembolism (coronary artery disease, prior stroke or TIA, symptomatic heart failure, LVEF <40%, peripheral arterial occlusive disease, or age >75 with hypertension and diabetes) were randomized to dronedarone 400 mg twice daily or placebo.

After enrollment of 3236 patients (placebo=1617 and dronedarone=1619) and a median follow up of 3.7 months for placebo and 3.9 for dronedarone, the study was terminated because of a significant increase in:

- Mortality: 25 dronedarone versus 13 placebo (HR, 1.94; CI: 0.99 to 3.79). The majority of deaths in the dronedarone group were classified as arrhythmic/sudden deaths (HR, 3.26; CI: 1.06 to 10.0). Baseline digoxin therapy was reported in 11/13 dronedarone patients who died of arrhythmia. None of the arrhythmic deaths on placebo (4) reported use of digoxin. In patients without baseline use of digoxin, no excess risk of arrhythmic death was observed in the dronedarone versus placebo groups.
- Stroke: 23 dronedarone versus 10 placebo (HR, 2.32; Cl: 1.11 to 4.88). The increased risk of stroke observed with dronedarone was observed in the first two weeks of therapy (10 dronedarone vs 1 placebo), most of the subjects treated with dronedarone did not have an INR of 2.0 to 3.0 [see Warnings and Precautions (5.3)].
- Hospitalizations for heart failure in the dronedarone group: 43 dronedarone versus 24 placebo (HR, 1.81; Cl: 1.10 to 2.99).

16 HOW SUPPLIED/STORAGE AND HANDLING

MULTAQ 400-mg tablets are provided as white film-coated tablets for oral administration, oblongshaped, engraved with a double wave marking on one side and "4142" code on the other side in: Bottles of 60 tablets, NDC 0024-4142-60

Store at room temperature between 68°F to 77°F (20°C to 25°C): excursions permitted to 59°F–86°F (15°C–30°C), [see USP controlled room temperature].

17 PATIENT COUNSELING INFORMATION

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

Administration Instructions

MULTAQ should be administered with a meal. Warn patients not to take MULTAQ with grapefruit juice. If a dose is missed, patients should take the next dose at the regularly scheduled time and should not double the dose.

Advise patients to consult a physician before stopping treatment with MULTAQ.

New Onset or Worsening Heart Failure

Advise patients to consult a physician if they develop signs or symptoms of heart failure such as acute weight gain, dependent edema, or increasing shortness of breath.

Advise patients to inform their physician of any history of heart failure, rhythm disturbance other than atrial fibrillation or flutter or predisposing conditions such as uncorrected hypokalemia. Liver Injury

Advise patients to immediately report any symptoms of potential liver injury (such as anorexia, nausea, vomiting, fever, malaise, fatigue, right upper quadrant abdominal discomfort, jaundice, dark urine, or itching) to their physician.

Drug Interactions

MULTAQ may interact with some drugs; therefore, advise patients to report to their doctor the use of any other prescription, non-prescription medication or herbal products, particularly St. John's wort. Embryo-fetal Toxicity

MULTAQ may cause fetal harm. Advise female patients of reproductive potential to use effective contraception during treatment with MULTAQ and for 5 days after the final dose [see Use in Specific Populations (8.3)]. Advise females to inform their healthcare provider of a known or suspected pregnancy [see Warnings and Precautions (5.10) and Use in Specific Populations (8.1)].

Advise females not to breastfeed during treatment with MULTAQ and for 5 days after the final dose [see Use in Specific Populations (8.2)].

Manufactured by:

sanofi-aventis U.S. LLC Morristown, NJ 07960 A SANOFI COMPANY

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MEDICATION GUIDE MULTAQ[®] (MUL-tak) (dronedarone) tablets

What is the most important information I should know about MULTAQ?

MULTAQ may cause serious side effects, including:

- Increased risk of death, stroke, and heart failure in people with:
 - A certain type of heart failure called decompensated heart failure. Heart failure is when your heart does not pump blood through your body as well as it should.
 MULTAQ can cause new or worsening heart failure.
 Do not take MULTAQ if you have symptoms of heart failure that recently worsened and you were hospitalized, or if you have severe heart failure.

Call your healthcare provider right away if you develop any of the following signs or symptoms of heart failure during treatment with MULTAQ:

- shortness of breath or wheezing at rest
- wheezing, chest tightness or coughing up frothy sputum at rest, nighttime or after minor exercise
- trouble sleeping or waking up at night because of breathing problems
- using more pillows to prop yourself up at night so you can breathe more easily
- gaining more than 5 pounds quickly
- increasing swelling of feet or legs
- A certain type of irregular heartbeat (rhythm) called permanent atrial fibrillation (AF). Permanent AF is when you and your healthcare provider decide not to try to change your heart rhythm back to a normal heart rhythm or your heart rhythm cannot be changed back to a normal rhythm.

Do not take MULTAQ if you have permanent AF. Your healthcare provider should check your heart rhythm regularly to make sure your heart keeps a normal rhythm. Call your healthcare provider right away if you develop any of the following signs or symptoms of AF during treatment with MULTAQ such as:

- fast or irregular heartbeat or pulse
- tiredness or weaknessreduced ability to exercise
- se = reduced abili
 - shortness of breath
- chest pain
 dizziness or lightheadedness

MULTAQ doubles your risk of dying if you have these conditions. Your healthcare provider may give you a medicine to help prevent blood clots and decrease your risk of stroke during treatment with MULTAQ. Tell your healthcare provider right away if you develop any of the following signs or symptoms of stroke during treatment with MULTAQ such as:

- numbness or weakness in the face, arms, or legs, especially on 1 side of the body
- confusion, trouble speaking, or difficulty understanding things
- trouble seeing in 1 or both eyes
- trouble walking, dizziness, loss of balance, or lack of coordination
- Liver problems. MULTAQ may cause severe liver problems, including life-threatening liver failure.
 Do not take MULTAQ if you have severe liver problems. Your healthcare provider may order blood tests to check your liver before you start taking MULTAQ and during treatment. Call your healthcare provider right away if you develop any of the following signs and symptoms of liver problems during treatment with MULTAQ:

 loss of appetite, nausea, vomiting fever, feeling unwell, unusual tiredness itching 		What should I tell MULTAQ? Before taking MU of your medical c • have any other
hospitalization for atrial fibrilla have a normal heart rhythm (paroxysmal or persistent AF	safe and effective in children	problems, or ha have an implar have liver or ki have lung prob have low levels are pregnant of your unborn ba Females who
about taking MULTAQ? Do not take MULTAQ if: • you have a certain type of and you do not have an • your heart rate is less that • you have had liver or lun • you have a certain type of abnormality including QTo	ortant information I should know of heart problem called heart block, implanted pacemaker an 50 beats each minute g problems after using amiodarone of electrocardiogram (ECG) c or PR interval prolongation es that can change the amount of	 Your health you start tr Use effective and for 5 d Tell your health are pregnate MULTAQ. are breastfeedi MULTAQ passed during treatmer MULTAQ. Tell your healthcard
 nefazodone ritonavir ketoconazole itraconazole erythromycin 	 voriconazole telithromycin clarithromycin cyclosporin 	including prescription and herbal suppler medicines may affer in your blood and how well MULTAQ Especially tell you
 you take certain medicine abnormal heart rhythm su 	es that can lead to a dangerous ich as:	medicine for his conditions
 phenothiazines tricyclic 	 macrolide antibiotics certain medicines for abnormal 	 statin medicine medicine for tu medicine for sci

 tricyclic 	 certain medicines for abnormal
antidepressants	heart rhythm or fast heartbeat
	(Class I and III antiarrhythmics)

 you are allergic to dronedarone or any of the other ingredients in MULTAQ. See the end of this Medication Guide for a complete list of ingredients in MULTAQ.

I my healthcare provider before taking

JLTAQ, tell your healthcare provider about all conditions, including if you:

- er heart problems, including heart rhythm nave had a stroke
- inted pacemaker
- kidney problems
- blems
- Is of potassium or magnesium in your blood
- or plan to become pregnant. MULTAQ may harm aby.
- can become pregnant
 - hcare provider will do a pregnancy test before reatment with MULTAQ.
 - ive birth control (contraception) during treatment days after your final dose of MULTAQ.
- nealthcare provider right away if you think you ant or become pregnant during treatment with
- ling or plan to breastfeed. It is not known if ses into your breast milk. Do not breastfeed ent and for 5 days after the final dose of

re provider about all the medicines you take, tion and over-the-counter medicines, vitamins, ements. Taking MULTAQ with certain other fect the amount of MULTAQ or other medicines may increase your risk of side effects or affect or the other medicines work.

our healthcare provider if you take:

- high blood pressure, chest pain, or other heart
- e to lower blood cholesterol
- uberculosis (TB)
- medicine for seizures
- digoxin
- · warfarin or other blood thinner medicines
- medicine for organ transplant
- an herbal supplement called St. John's wort
- water pills (diuretics)

Know the medicines you take. Keep a list of them to show to your healthcare provider and pharmacist when you get a new medicine.

How should I take MULTAQ?

- Take MULTAQ exactly as your healthcare provider tells you.
- Take MULTAQ 2 times a day, in the morning and evening with a meal.
- Do not stop taking MULTAQ without first talking to your healthcare provider.
- If you miss a dose of MULTAQ, skip the missed dose and take your next dose at your regular time. Do not take 2 doses at the same time to make up for a missed dose.
- If you take too much MULTAQ, call your healthcare provider or go to the nearest hospital emergency room right away.

What should I avoid while taking MULTAQ? Do not drink grapefruit juice during treatment with MULTAQ.

Grapefruit juice can increase the amount of MULTAQ in your blood and can increase your chance of getting side effects.

What are the possible side effects of MULTAQ? MULTAQ may cause serious side effects, including:

- · See "What is the most important information I should know about MULTAQ?'
- · Inflammation of the lungs, including scarring and thickening. Call your healthcare provider if you develop shortness of breath or a dry cough during treatment with MULTAQ.
- · Low potassium and magnesium levels in your blood. This can happen if you take certain water pills (diuretics) during treatment with MULTAQ. Your healthcare provider may check you for this problem before and during treatment. Tell your healthcare provider if you develop any of the following symptoms of low potassium or low magnesium during treatment with MULTAQ:
 - nausea or vomiting
- o constipation
- o weakness or
- heart palpitations
- sleepiness o muscle weakness,
- tingling or numbress
- spasms, or tremors
- o loss of appetite
- · Changes in the electrical activity in your heart called QT interval prolongation. QT interval prolongation can increase your chance of getting dangerous abnormal heart rhythms.
- Kidney problems and kidney failure. MULTAQ can cause changes in kidney function that can be serious and lead to kidney failure, especially in people with heart failure or people with low body fluid levels. Your healthcare provider will check your blood for signs of kidney problems during treatment. Tell your healthcare provider if you develop any of the following symptoms of kidney problems during treatment with MULTAQ:
 - loss of appetite o swelling of the feet and ankles
 - nausea and vomiting shortness of breath
 - o muscle cramps o dry, itchy skin
- trouble sleeping
 - o urinating too much or too little

The most common side effects of MULTAQ include:

- diarrhea
- stomach area weakness, lack of energy, and (abdominal) pain feeling very tired or sleepy
 - slow heart rate (bradycardia)

nausea

(asthenia)

- vomiting
- skin problems such as redness, rash, and itching
- indigestion

Your healthcare provider may stop treatment with MULTAQ if you develop certain side effects. These are not all of the possible side effects of MULTAQ.

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

How should I store MULTAQ?

Store MULTAQ at room temperature between 68°F to 77°F (20°C to 25°C)

Keep MULTAQ and all medicines out of the reach of children.

General information about the safe and effective use of MULTAQ.

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

What are the ingredients in MULTAQ? Active ingredient: dronedarone Inactive ingredients: tablet core: Colloidal silicon dioxide, crospovidone, hypromellose, lactose monohydrate, magnesium stearate, poloxamer 407, starch. tablet coating: Carnauba wax, hypromellose, polyethylene glycol 6000, titanium dioxide. Manufactured by: sanofi-aventis Ú.S. LLC Morristown, NJ 07960 A SANOFI COMPANY ©sanofi-aventis 2025 All rights reserved. MULTAQ is a registered trademark of sanofi-aventis. For more information go to www.sanofi-aventis.us or call sanofiaventis Medical Information Services at 1-800-633-1610 option 1.

This Medication Guide has been approved by the U.S. Food and Drug Administration. Revised May 2025

DRO-FPLR-SL-MAY25

Rx Only