PRODUCT MONOGRAPH INCLUDING PATIENT MEDICATION INFORMATION

Pr**Teva-Ambrisentan**

Ambrisentan tablets
Tablets, 5 mg and 10 mg, Oral
Endothelin Receptor Antagonist

Teva Canada Limited 30 Novopharm Court Toronto, Ontario M1B 2K9 Date of Initial Authorization: March 15, 2023

Submission Control Number: 260243

Teva-Ambrisentan Page 1 of 40

RECENT MAJOR LABEL CHANGES

Not applicable.

TABLE OF CONTENTS

Sections or subsections that are not applicable at the time of authorization are not listed.

RECE	NT MAJ	OR LABEL CHANGES	2				
TABLE	OF CO	NTENTS	2				
PART	I: HEAL	TH PROFESSIONAL INFORMATION	4				
1	INDI	INDICATIONS					
	1.1 P	ediatrics (<18 years of age)	4				
	1.2 G	eriatrics (≥ 65 years of age)	4				
2	CON	FRAINDICATIONS	4				
4	DOSA	AGE AND ADMINISTRATION	4				
	4.1 D	osing Considerations	4				
	4.2 R	ecommended Dose and Dosage Adjustment	5				
	4.5 N	1issed Dose	5				
5	OVEF	RDOSAGE	5				
6	DOSA	DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING					
7	WAR	WARNINGS AND PRECAUTIONS					
	7.1	Special Populations	S				
	7.1.1	Pregnant Women	S				
	7.1.2	Breast-feeding	10				
	7.1.3	Pediatrics (<18 years of age)	10				
	7.1.4	Geriatrics (> 65 years of age)	10				
8	ADVE	ADVERSE REACTIONS					
	8.1	Adverse Reaction Overview	10				
	8.2	Clinical Trial Adverse Reactions	11				
	8.3	Less Common Clinical Trial Adverse Reactions – Pediatrics	13				
	8.4	Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quar Data					
	8.5	Post-Market Adverse Reactions	14				
9	DRU	G INTERACTIONS	14				
	9.2	Drug Interactions Overview	14				
	9.4	Drug-Drug Interactions	15				
	9.5	Drug-Food Interactions	19				

	9.6	Drug-Herb Interactions	19			
	9.7	Drug-Laboratory Test Interactions	19			
10	CLINI	CAL PHARMACOLOGY	19			
	10.1	Mechanism of Action	19			
	10.2	Pharmacodynamics	19			
	10.3	Pharmacokinetics	21			
11	STOR	AGE, STABILITY AND DISPOSAL	23			
12	SPEC	IAL HANDLING INSTRUCTIONS	23			
PART	II: SCIE	NTIFIC INFORMATION	24			
13	PHAF	RMACEUTICAL INFORMATION	24			
14	CLINI	CAL TRIALS	24			
	14.1	Trial Design and Study Demographics	24			
	14.3	Comparative Bioavailability Studies	31			
15	MICE	OBIOLOGY	32			
16	NON	-CLINICAL TOXICOLOGY	32			
17	SUPPORTING PRODUCT MONOGRAPHS3					
PATIE	NT MEI	DICATION INFORMATION	35			

PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

Teva-Ambrisentan (ambrisentan tablets) is indicated for treatment of idiopathic ('primary') pulmonary arterial hypertension (IPAH) and pulmonary arterial hypertension (PAH) associated with connective tissue disease in adult patients with WHO functional class II or III symptoms.

Teva-Ambrisentan should only be used by clinicians experienced in the diagnosis and treatment of IPAH or PAH.

1.1 Pediatrics (<18 years of age)

No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

1.2 Geriatrics (≥ 65 years of age)

2 CONTRAINDICATIONS

Teva-Ambrisentan is contraindicated in:

- Patients with a known or suspected hypersensitivity to Teva-Ambrisentan or any of the ingredients in the formulation (see <u>6</u>
- •
- DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING).
- Pregnancy (see 7.1.1 Pregnant Women).
- Breastfeeding (see <u>7.1.2 Breast-feeding</u>).
- Patients with severe hepatic impairment (with or without cirrhosis) (see <u>7 WARNINGS AND PRECAUTIONS</u>, Hepatic/Biliary/Pancreatic, and <u>4 DOSAGE AND ADMINISTRATION</u>).
- Patients with baseline values of hepatic aminotransferases (aspartate aminotransferases (AST) and/or alanine aminotransferases (ALT)) >3x ULN (see <u>7 WARNINGS AND PRECAUTIONS</u>, <u>Hepatic/Biliary/Pancreatic</u>, and <u>4 DOSAGE AND ADMINISTRATION</u>).
- Patients with idiopathic pulmonary fibrosis (IPF), with or without pulmonary hypertension.

4 DOSAGE AND ADMINISTRATION

4.1 Dosing Considerations

- Treatment should only be initiated by a physician experienced in the treatment of PAH.
- Assess liver function before starting Teva-Ambrisentan (see <u>7 WARNINGS AND</u>
 <u>PRECAUTIONS</u>, <u>Hepatic/Biliary/Pancreatic</u>, and <u>Monitoring and Laboratory Tests</u>).

Teva-Ambrisentan Page 4 of 40

- Teva-Ambrisentan treatment should only be initiated in women of child-bearing potential following a negative pregnancy test and providing they are using a reliable method of contraception (see 7.1.1 Pregnant Women).
- Teva-Ambrisentan is contraindicated in patients with severe hepatic impairment and those
 with baseline AST or ALT >3x ULN. Teva-Ambrisentan should be used with caution in patients
 with moderate hepatic impairment (see <u>7 WARNINGS AND PRECAUTIONS</u>; <u>10.3</u>
 <u>Pharmacokinetics</u>, and <u>Special Populations and Conditions</u>, <u>Hepatic Insufficiency</u>).
- Patients with PAH associated with connective tissue disease may require 10 mg Teva-Ambrisentan for optimal efficacy. Consider increasing the dose to 10 mg Teva-Ambrisentan providing the 5 mg dose is well tolerated (see <u>8 ADVERSE REACTIONS</u>).

4.2 Recommended Dose and Dosage Adjustment

Teva-Ambrisentan should be initiated at a dose of 5 mg once daily. Additional benefit may be obtained by increasing the dose to 10 mg once daily.

The maximum recommended daily dose is 10 mg.

When co-administered with cyclosporine A, the dose of Teva-Ambrisentan should be limited to 5 mg once daily (see <u>9.4 Drug-Drug Interactions</u>, Cyclosporine A).

Teva-Ambrisentan can be administered with or without food.

Safety and efficacy of ambrisentan have not been established in patients under 18 years of age. Health Canada has not authorized an indication for pediatric use (see 16 NON-CLINICAL TOXICOLOGY).

No dose adjustment is required in patients aged 65 years and over. In clinical monotherapy studies, peripheral edema was reported as dose dependent and more common in patients ≥65 years of age.

Renal metabolism and excretion of ambrisentan is minimal, so dose adjustment is unlikely to be required in patients with renal impairment.

4.5 Missed Dose

If a dose of Teva-Ambrisentan is missed; the patient should be advised to take it as soon as they remember, and then continue with the next dose at the regular interval. Two doses should not be taken at the same time to make up for a missed dose.

5 OVERDOSAGE

In healthy volunteers, single doses of 50 and 100 mg (5 to 10 times the maximum recommended dose) were associated with headache, flushing, dizziness, nausea, and nasal congestion.

Teva-Ambrisentan Page 5 of 40

Due to the mechanism of action of ambrisentan tablets, an overdosage of Teva-Ambrisentan could potentially result in hypotension. In the case of pronounced hypotension, active cardiovascular support may be required. No specific antidote is available.

For management of a suspected drug overdose, contact your regional poison control centre.

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 1 – Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Oral	Tablet, 5 mg and 10 mg	Croscarmellose sodium, lactose monohydrate, lecithin, macrogol/polyethylene glycol, magnesium stearate, microcrystalline cellulose, polyvinyl alcohol, talc and titanium dioxide

Packaging

Teva-Ambrisentan 5 mg film-coated tablets are oblong-shaped, white to off white tablets engraved with '5' on one side and '405' on the other.

Teva-Ambrisentan 10 mg film-coated tablets are oblong-shaped, white to off white tablets engraved with '10' on one side and '406' on the other.

Each film-coated tablet contains ambrisentan and the following non-medicinal ingredients: Croscarmellose sodium, lactose monohydrate, lecithin, macrogol/polyethylene glycol, magnesium stearate, microcrystalline cellulose, polyvinyl alcohol, talc and titanium dioxide.

Teva-Ambrisentan tablets are available in blister packs of 30 (3 x 10) tablets.

7 WARNINGS AND PRECAUTIONS

Carcinogenesis and Mutagenesis

There are no human data available (see 16 NON-CLINICAL TOXICOLOGY, Carcinogenicity).

Driving and Operating Machinery

There have been no studies to investigate the effect of ambrisentan tablets on driving performance or the ability to operate machinery. Further, a detrimental effect on such activities cannot be predicted from the pharmacology of the active substance.

Fluid retention

Teva-Ambrisentan Page 6 of 40

Peripheral edema (fluid retention) has been observed with endothelin receptor antagonists (ERAs) including ambrisentan tablets. Peripheral edema may also be a clinical consequence of PAH. Ambrisentan induced a dose-dependent increased incidence of mild to moderate peripheral edema (see 8 ADVERSE REACTIONS).

Post-market reports confirm that fluid retention may occur within weeks after starting ambrisentan tablets and, in some cases, has required intervention with a diuretic or hospitalization for fluid management or decompensated heart failure (see 8.2 Clinical Trial Adverse Reactions, Table 2). If patients have pre- existing fluid overload, this should be managed as clinically appropriate prior to starting Teva-Ambrisentan.

If clinically significant peripheral edema develops during therapy with Teva-Ambrisentan, with or without associated weight gain, further evaluation should be undertaken to determine the cause, such as the use of Teva-Ambrisentan or the existence of underlying heart failure. The possible need for specific treatment or discontinuation of Teva-Ambrisentan therapy should also be evaluated.

Hematologic

The development of drug-related decreases in hemoglobin concentration and hematocrit has been associated with administration of endothelin receptor antagonists and was observed in clinical studies with ambrisentan tablets in monotherapy. There have been cases where this has resulted in anemia requiring transfusion. These decreases were generally observed within the first few weeks of treatment with ambrisentan, and stabilized thereafter.

Initiation of Teva-Ambrisentan is not recommended for patients with clinically significant anemia (see 7 WARNINGS AND PRECAUTIONS, Monitoring and Laboratory Tests).

Hepatic/Biliary/Pancreatic

Liver function abnormalities have been associated with pulmonary arterial hypertension. Hepatic enzyme elevations potentially related to therapy have been observed with endothelin receptor antagonists (ERAs). Therefore, hepatic function should be evaluated prior to initiation of Teva-Ambrisentan. Monitor liver function as clinically indicated for patients with normal liver function or mild hepatic impairment. Initiation of Teva-Ambrisentan is contraindicated for patients with aminotransferase (alanine aminotransferase, ALT or aspartate aminotransferase, AST) concentrations greater than 3 times the upper limit of normal (>3x ULN) or patients with severe hepatic impairment. Teva-Ambrisentan should be used with caution in patients with moderate hepatic impairment and monthly monitoring of ALT and AST is recommended (see 4 DOSAGE AND ADMINISTRATION, and 10 CLINICAL PHARMACOLOGY).

Although the incidence of aminotransferase abnormalities was low, the possibility of serum aminotransferase elevations associated with ambrisentan tablets administration cannot be excluded. Therefore monthly monitoring of ALT and AST is recommended in particularly vulnerable patients such as those with moderate hepatic impairment or those with clinically significant right heart failure, pre-existing liver disease, previous elevations of aminotransferases due to medications or taking concurrent medications known to elevate aminotransferases who may be at increased risk for developing elevated

Teva-Ambrisentan Page 7 of 40

aminotransferases on Teva-Ambrisentan. If patients develop clinically significant aminotransferase elevations or if aminotransferase elevations are accompanied by signs or symptoms of hepatic injury (e.g. jaundice), Teva-Ambrisentan therapy should be discontinued.

In patients without clinical symptoms of hepatic injury or of jaundice, re-initiation of Teva-Ambrisentan maybe considered following resolution of hepatic enzyme abnormalities. Hepatic injury and autoimmune hepatitis are known to occur in PAH patients and autoantibodies are frequently found in IPAH. Cases consistent with autoimmune hepatitis, including possible exacerbation of underlying autoimmune hepatitis, and hepatic injury have been reported with ambrisentan tablets therapy, although the contribution of ambrisentan to these events is unclear.

Therefore, patients should be monitored for signs of hepatic injury and caution exercised when Teva-Ambrisentan is used alone or concomitantly with other medicinal products known to be associated with hepatic injury as the additive effects of Teva-Ambrisentan with these agents are not known. Management of autoimmune hepatitis in PAH patients should be optimized prior to initiation of Teva-Ambrisentan and during Teva-Ambrisentan therapy. If patients develop signs or symptoms of hepatitis, or suffer exacerbation of existing autoimmune hepatitis, Teva-Ambrisentan should be discontinued.

Other ERAs have been associated with aminotransferase (AST, ALT) elevations, hepatotoxicity, and cases of liver failure (see <u>8 ADVERSE REACTIONS</u>). In patients who develop hepatic impairment after ambrisentan initiation, the cause of liver injury should be fully investigated. Discontinue ambrisentan if elevations of liver aminotransferases are >3x ULN or if elevations are accompanied by bilirubin >2x ULN, or by signs or symptoms of liver dysfunction and other causes are excluded.

Monitoring and Laboratory Tests

Hemoglobin and Hematocrit

Ambrisentan tablets has been associated with reductions in hemoglobin concentrations and hematocrit. Initiation of Teva-Ambrisentan is not recommended for patients with clinically significant anemia. It is recommended that hemoglobin and/or hematocrit levels are measured prior to the initiation of Teva-Ambrisentan, again at one month, and periodically thereafter as clinically indicated. Decreases in hemoglobin and/or hematocrit were observed as very common clinical trial adverse drug reactions (see Table 2). In monotherapy studies, the mean decrease in hemoglobin from baseline to the end of treatment for patients receiving ambrisentan in 12-week placebo-controlled studies was 0.8 g/dL Hemoglobin reductions were observed to persist for 4 years.

If a clinically significant decrease in hemoglobin or hematocrit is observed, and other causes have been excluded, discontinuation of Teva-Ambrisentan should be considered.

Liver Function Tests

Liver transaminase levels should be measured prior to initiation of treatment and subsequently at monthly intervals in vulnerable patients, or generally in any patient as clinically indicated (see <u>7</u> WARNINGS AND PRECAUTIONS, Hepatic/Biliary/Pancreatic).

If patients develop clinically significant elevations of transaminases greater than 3x ULN), or if transaminase elevations are accompanied by signs or symptoms of hepatic injury (such as nausea, vomiting, fever, abdominal pain, jaundice or unusual lethargy or fatigue) or if elevations are accompanied by increases in bilirubin 2xULN, treatment with Teva-Ambrisentan should be stopped.

Teva-Ambrisentan Page 8 of 40

In patients without clinical symptoms of hepatic injury or jaundice, re-initiation of Teva-Ambrisentan may be considered following resolution of hepatic enzyme abnormalities (see <u>7 WARNINGS AND</u> PRECAUTIONS, Hepatic/Biliary/Pancreatic).

Pulmonary Veno-Occlusive Disease

If patients develop acute pulmonary edema during initiation of Teva-Ambrisentan, the possibility of pulmonary veno-occlusive disease should be considered.

Renal

Ambrisentan tablets have not been studied in individuals with renal impairment. Ambrisentan tablets does not undergo significant renal metabolism or renal clearance (excretion), and therefore dose adjustment is unlikely to be required in patients with renal impairment (see 10.3 Pharmacokinetics).

Reproductive Health: Female and Male Potential

Fertility

Teratogenic Risk

Teratogenicity is a class effect of ERAs. Animal studies in rats and rabbits have shown that ambrisentan is teratogenic with reports of increased incidences of fetal malformations and abnormalities following administration. (see 16 NON-CLINICAL TOXICOLOGY).

7.1 Special Populations

7.1.1 Pregnant Women

The use of Teva-Ambrisentan is contraindicated in pregnant women. Animal studies in rats and rabbits have shown that ambrisentan is teratogenic with reports of increased incidences of fetal malformations and abnormalities following administration of ERAs including ambrisentan tablets (see 16 NON-CLINICAL TOXICOLOGY).

Women of child bearing potential should be advised of the risk of fetal harm if Teva-Ambrisentan is taken during pregnancy. Pregnancy must be excluded before the start of treatment with Teva-Ambrisentan and prevented thereafter by reliable contraception. Pregnancy tests during treatment with Teva-Ambrisentan are recommended as clinically indicated.

Women of child bearing potential should be advised to contact their physician immediately if they become pregnant or suspect they may be pregnant. If pregnancy is to be continued, Teva-Ambrisentan should be discontinued and alternative treatment should be initiated (see 2

Teva-Ambrisentan Page 9 of 40

There is limited safety and effectiveness data in the geriatric population (seeError! Reference source not found. Geriatrics and 10.3 Pharmacokinetics).

CONTRAINDICATIONS and 16 NON-CLINICAL TOXICOLOGY, Pregnancy).

7.1.2 Breast-feeding

It is unknown if ambrisentan is excreted in human milk. Therefore breastfeeding is contraindicated in patients taking Teva-Ambrisentan (see 2

There is limited safety and effectiveness data in the geriatric population (seeError! Reference source not found. Geriatrics and 10.3 Pharmacokinetics).

CONTRAINDICATIONS).

7.1.3 Pediatrics (<18 years of age)

No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use (see 16 NON-CLINICAL TOXICOLOGY).

7.1.4 Geriatrics (> 65 years of age)

No dose adjustment is required in patients aged 65 years and over.

In clinical studies where ambrisentan tablets were used in monotherapy, peripheral edema was reported as dose dependent, was more common and tended to be more severe in patients ≥65 years of age (see <u>8 ADVERSE REACTIONS</u>, <u>10 CLINICAL PHARMACOLOGY</u>, Special Populations and Conditions and <u>4 DOSAGE AND ADMINISTRATION</u>).

8 ADVERSE REACTIONS

8.1 Adverse Reaction Overview

The safety of ambrisentan tablets has been evaluated in Phase II and Phase III clinical studies totalling 483 patients with PAH who were treated with doses of 1, 2.5, 5, or 10 mg once daily, ranging in exposure from 1 day to 3.5 years. Overall, ambrisentan tablets was well tolerated.

In placebo-controlled 12-week studies, the most commonly (≥10%) reported adverse drug reactions with ambrisentan tablets were peripheral edema, headache, and nasal congestion (see Table 2).

In placebo-controlled phase III studies, the proportion of subjects who discontinued because of adverse events was similar across all treatment groups: 3.0% in the placebo group and 2.3% in the ambrisentan tablets group.

In the placebo-controlled studies, six (4.5%) subjects in the placebo group died and 4 (1.5%) subjects in the ambrisentan groups died. A higher proportion of subjects in the placebo group had at least one non- fatal serious adverse event (SAE) compared to the ambrisentan tablets-treated patients. The most frequent SAEs for both the placebo and ambrisentan tablets -treated patients

Teva-Ambrisentan Page 10 of 40

were right ventricular failure (placebo, 6.1%; ambrisentan tablets, 1.1%) and (worsening) pulmonary hypertension (placebo, 3.8 %; ambrisentan tablets, 1.1 %). Treatment- related SAEs occurred with a similar frequency across all ambrisentan tablets treatment groups.

8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.

Experience from Short-term Clinical Studies

The following safety data for ambrisentan tablets were obtained from two Phase III 12-week placebo-controlled studies in subjects with PAH (ARIES-1 and ARIES-2). A total of 197 patients received ambrisentan tablets at doses of 5 or 10 mg once daily and 132 patients received placebo. The adverse drug reactions observed in ARIES-1 and ARIES-2 are summarized in Table 2.

Table 2 Adverse Drug Reactions for PAH Patients Receiving Ambrisentan in Short -Term Studies (ARIES-1 and ARIES-2, integrated analysis)

System Organ Class	Placebo	Ambrisentan	Ambrisentan
Preferred Term	(N=132)	5 mg	10 mg
	n (%)	(N=130)	(N=67)
		n (%)	n (%)
Blood and lymphatic system disorders			
Anemia	2 (1.5)	2 (1.5)	2 (3.0)
Cardiac disorders			
Palpitations	3 (2.3)	5 (3.8)	3 (4.5)
Gastrointestinal disorders			
Constipation	2 (1.5)	4 (3.1)	4 (6.0)
Abdominal pain ^a	1 (0.8)	6 (4.6)	4 (6.0)
General disorders and administration si	te conditions		
Peripheral edema	14 (10.6)	24 (18.5)	19 (28.4)
Fluid retention ^b	4 (3.0)	4 (3.1)	4 (6.0)
Nervous system disorders			
Headache	18 (13.6)	20 (15.4)	13 (19.4)
Respiratory, thoracic and mediastinal d	isorders		
Nasal congestion	2 (1.5)	7 (5.4)	7 (10.4)
Nasopharyngitis	1 (0.8)	7 (5.4)	2 (3.0)
Sinusitis	0	4 (3.1)	3 (4.5)
Vascular disorders	<u> </u>		
Flushing ^c	2 (1.5)	5 (3.8)	1 (1.5)

a) Includes Abdominal Pain Upper b) Includes Fluid Retention, Fluid Overload, and Local Swelling c) Includes Hot Flush

Teva-Ambrisentan Page 11 of 40

Adverse drug reactions in short-term monotherapy trials were generally mild to moderate. The higher dose (10 mg) was associated with a higher incidence of peripheral edema, headache, nasal congestion, palpitations, constipation sinusitis, anemia, abdominal pain, and fluid retention. Peripheral edema was the most common adverse drug reaction observed with ambrisentan tablets, and incidence rates varied with age. Among younger patients (<65 years), the incidence was 18% (28/155) among those receiving ambrisentan tablets compared to 13% (13/104) receiving placebo. Among elderly patients (≥65 years), the incidence of peripheral edema was greater: 36% (15/42) among those receiving ambrisentan tablets compared to 4% (1/28) receiving placebo. The results of such subgroup analyses must be interpreted cautiously.

Experience from Long-term Clinical Studies

The long-term safety (>3 months) of ambrisentan tablets in monotherapy was evaluated in 383 patients with PAH in the ARIES-E study, a non-placebo controlled clinical trial extension of ARIES-1 and ARIES-2. Adverse drug reactions observed in long-term studies ARIES-E are summarized in Table 3.

Table 3 Adverse Drug Reactions for PAH Patients Receiving Ambrisentan in Long-term Studies (>3 months), ARIES-E data

	ARIES-E
	Ambrisentan Monotherapy
	N=383
System Organ Class Preferred Term	n (%)
Blood and lymphatic system disorders	
Anemia	52 (14)
Cardiac disorders	
Palpitations	50 (13)
Eye disorders	
Visual impairment ^a	13 (3)
Gastrointestinal disorders	
Nausea	53 (14)
Vomiting	30 (8)
Constipation	33 (9)
Abdominal pain ^b	55 (14)
General disorders and administration site conditions	
Peripheral edema	168 (44)
Fluid retention ^c	24 (6)
Fatigue	47 (12)
Asthenia	20 (5)
Immune system disorders	
Hypersensitivity ^d	13 (3)

Teva-Ambrisentan Page 12 of 40

	ARIES-E
	Ambrisentan Monotherapy
	N=383
System Organ Class Preferred Term	n (%)
Nervous system disorders	
Headache	96 (25)
Dizziness	66 (17)
Respiratory, thoracic and mediastinal disorders	
Nasal congestion	48 (13)
Nasopharyngitis	58 (15)
Sinusitis	39 (10)
Dyspnoea ^e	64 (17)
Skin and subcutaneous tissue disorders	
Rash ^f	27 (7)
Vascular disorders	
Flushing ^g	23 (6)

a) Visual impairment includes Vision blurred and Visual disturbance. b) Abdominal pain includes Abdominal pain upper c) Fluid retention includes Fluid retention, Fluid overload, and Local swelling d) Hypersensitivity includes Drug hypersensitivity e) Dyspnea includes Dyspnea exertional. f) Rash includes Rash erythematous, Rash generalised, Rash macular, Rash papular, and Rash pruritic g) Flushing includes Hot flush.

In general, no new or unexpected adverse events were observed during the long-term extension of ARIES-1 and ARIES-2 which had lasted 12 weeks. Of the 67 (18%) deaths during the extension study, six serious adverse reactions observed in four patients (N=32; 13%) were considered by the investigators to be causally related to ambrisentan tablets.

An adverse event led to permanent discontinuation of 85 (22%) patients due mainly to worsening of pulmonary hypertension (5.2%) and right ventricular failure. Sixteen (4%) subjects had ALT and/or AST elevation >3 times the upper limit of normal which led to discontinuation of only one patient. Decrease in hemoglobin persisted for the full duration of treatment. Patients on warfarin or other anticoagulants had no clinically relevant changes in *mean* PT or INR.

8.3 Less Common Clinical Trial Adverse Reactions – Pediatrics

The following less common clinical trial adverse reaction occurred in PAH patients receiving ambrisentan tablets in phase III 12-week placebo-controlled studies in subjects with PAH (ARIES-1 and ARIES-2):

Immune system disorders: Hypersensitivity

8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data

Hematologic Changes

Teva-Ambrisentan Page 13 of 40

In the placebo-controlled Phase III studies in patients with PAH, the mean changes from baseline (in patients receiving placebo, ambrisentan tablets 5 mg and 10 mg, respectively) were (+0.15, -0.77, -0.93) for hemoglobin and (+0.01%, -2%, -3%) for hematocrit. These changes were not dose-related in patients receiving ambrisentan tablets 5 mg and 10 mg. Marked decreases in hemoglobin (> 15% decrease from baseline resulting in a value below the lower limit of normal) were observed in 7% of patients receiving ambrisentan tablets and 4% of patients receiving placebo. Similar decreases in hemoglobin/hematocrit have been observed with other ERAs; the cause of the decrease is not fully understood, but it is not due to hemorrhage or hemolysis. Adverse events related to anemia, low hemoglobin or low hematocrit appeared to be more frequent with 10 mg ambrisentan tablets than lower doses or placebo. Mean decreases from baseline (ranging from 0.9 to 1.2 g/dL) in hemoglobin concentrations persisted for up to 4 years of treatment with ambrisentan tablets in the long-term open-label extension of the pivotal Phase III clinical studies.

Clinical Chemistry Changes

A number of patients (19%) showed an increase of γGT (>3x ULN). The clinical significance is not known.

8.5 Post-Market Adverse Reactions

In addition to adverse drug reactions identified from clinical studies, the following adverse drug reactions were identified during post-approval use of ambrisentan tablets. Events of 'unknown' frequency have been reported voluntarily from a population of unknown size, therefore estimates of frequency cannot be made.

Cardiac Disorders

Fluid retention and heart failure associated with fluid retention occurring within weeks after starting ambrisentan tablets therapy have been reported post-marketing. In some cases, these events have required intervention with a diuretic or hospitalization for fluid management or decompensated heart failure.

Blood and Lymphatic System Disorders

Anemia requiring transfusion.

Hepatobiliary Disorders

Cases of increased hepatic transaminases (AST and ALT >3x ULN), autoimmune hepatitis (see 7 WARNINGS AND PRECAUTIONS), including cases of exacerbation of autoimmune hepatitis, and hepatic injury of unclear etiology (including increased blood bilirubin >2x ULN) have been reported during ambrisentan therapy. The incidence of liver events was similar in patients with left ventricular dysfunction.

9 DRUG INTERACTIONS

9.2 Drug Interactions Overview

Studies with human liver tissue indicate that ambrisentan is metabolized by uridine 5'-diphosphate glucuronosyltransferases (UGTs) 1A9S, 2B7S, and 1A3S, CYP3A4 and CYP2C19. *In*

Teva-Ambrisentan Page 14 of 40

vitro studies suggest that ambrisentan tablets is a substrate of Organic Anion Transport Protein (OATP). *In vitro* studies also show ambrisentan tablets is a substrate but not an inhibitor of P-glycoprotein (P-gp).

In vitro data show that ambrisentan tablets at concentrations up to 300microM does not markedly inhibit UGT1A1, UGT1A6, UGT1A9, UGT2B7 or cytochrome P450 enzymes 1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1 and 3A4. Further, *in vitro* studies using cell-lines transfected with the human transporter genes showed that ambrisentan tablets does not inhibit P-gp, breast cancer receptor protein (BCRP), multi-drug resistance related protein 2 (MRP2), or bile salt export pump (BSEP) at concentrations up to 100microM. Ambrisentan tablets showed weak *in vitro* inhibition of OATP1B1, OATP1B3 and sodium-taurocholate co-transporter (NTCP) with IC50 values of 47μmicroM, 45microM, and approximately 100microM, respectively. *In vitro* studies in rat and human hepatocytes showed no evidence for ambrisentan inhibition of NTCP, OATP, BSEP and MRP2.

Furthermore, ambrisentan tablets did not induce MRP2, P-gp or BSEP protein expression in rat hepatocytes. Taken together, the in vitro data suggest that ambrisentan, at clinically relevant concentrations, would not be expected to have an effect on UGT1A1, UGT1A6, UGT1A9, UGT2B7 or cytochrome P450 enzymes 1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1, 3A4 or transport via BSEP, BCRP, P-gp, MRP2, OATP1B1/3, or NTCP.

9.4 Drug-Drug Interactions

The drugs listed in this table are based on either drug interaction case reports or studies, or potential interactions due to the expected magnitude and seriousness of the interaction

Table 4 Established or Potential Drug-Drug Interactions

Drug interaction	Level of evidence	Effect	Clinical comment
Cyclosporine A	СТ	$_{ au_{j}}$ of ambrisentan increased (48% and	The dose of ambrisentan tablets should be limited to 5 mg once daily when co-administered with cyclosporine A (see 4.2 Recommended Dose and Dosage Adjustment No dose adjustment of cyclosporine A is warranted.

Teva-Ambrisentan Page 15 of 40

Drug interaction	Level of evidence	Effect	Clinical comment
		cyclosporine increased by 38% as compared to ambrisentan tablets alone (from 8.36h to 11.5h). No important differences in the median t _{max} were observed. However, multiple doses of ambrisentan tablets had no clinically relevant effect on cyclosporine A exposure. It should be noted that the apparent mean t _{1/2} value of cyclosporine A increased by 32% from 4.79h (cyclosporine A alone) to 6.33h in the presence of ambrisentan tablets compared to ambrisentan tablets alone (from 8.36h to 11.5h). No important differences in the median t _{max} were observed. However, multiple doses of ambrisentan tablets had no clinically relevant effect on cyclosporine A exposure. It should be noted that the apparent mean t _{1/2} value of cyclosporine A increased by 32% from 4.79h (cyclosporine A alone) to 6.33h in the	
Phosphodiesterase inhibitors (Sildenafil; Tadalafil)	СТ	presence of ambrisentan tablets. In healthy volunteers, co-administration of ambrisentan tablets with a phosphodiesterase inhibitor, (either sildenafil or tadalafil) did not significantly affect the pharmacokinetics	two drugs could result in a drop of blood pressure. The combination should
Sildenafil	СТ	In healthy volunteers receiving a single dose of sildenafil (20 mg), daily doses of ambrisentan tablets (10 mg) did not have a clinically relevant effect on the	Co-administration of the two drugs could result in a drop of blood pressure. The combination should therefore be used with caution.
Ketoconazole	СТ	Steady-state administration of	Patients on 10 mg of ambrisentan while on

Teva-Ambrisentan Page 16 of 40

Drug interaction	Level of evidence	Effect	Clinical comment
			ketoconazole should be monitored closely for any signs of adverse effects.
Digoxin	СТ	ambrisentan tablets (10 mg) on the pharmacokinetics of single dose digoxin were studied in 15 healthy volunteers. Multiple doses of ambrisentan tablets resulted in	No dose adjustment of digoxin is warranted. However, given the narrow therapeutic index of digoxin, caution and monitoring are recommended.
Oral contraceptives	СТ		No dose adjustment is warranted.

Teva-Ambrisentan Page 17 of 40

Drug interaction Level of evidence		Effect	Clinical comment	
		14 %, respectively). These changes in		
		exposure to ethinyl estradiol or		
		norethindrone were small and are		
		unlikely to be clinically significant.		
Strong 2C19	СТ	In clinical studies of patients with	No dose adjustment	
inhibitor		PAH, co-administration of	is warranted.	
(omeprazole)		ambrisentan and omeprazole (an		
		inhibitor of CYP2C19) did not		
		significantly affect the pharmacokinetics of ambrisentan.		
Rifampin	СТ	The effects of acute and repeat dosing	No dose adjustment of	
Midilipiii		of rifampin (600 mg once daily) on the	ambrisentan is	
			warranted upon	
		ambrisentan tablets (10 mg once daily)		
		were studied in healthy volunteers.	administration with	
		Following initial doses of rifampin, a	rifampin.	
		transient increase in ambrisentan		
		tablets AUC $_{(0-\tau)}$ (121% and 116% after		
		first and second doses of rifampin,		
		respectively) was observed.		
		Apparent plasma t _{1/2} of ambrisentan		
		tablets decreased by 50% from 8.28h		
		to 4.59h when co-administered with		
		rifampin. However, there was no		
		clinically relevant effect on ambrisentan tablets exposure by		
		day 8, following administration of		
		multiple doses of rifampin.		
Warfarin	СТ	In healthy volunteers receiving	No dose adjustment	
			is warranted.	
		tablets (10 mg) did not have a		
		clinically relevant effect on		
		prothrombin time (PT), International		
		Normalized Ratio (INR), or the		
		pharmacokinetics of S-warfarin		
		(CYP2C9 substrate) or R-warfarin		
		(CYP3A4 substrate).		
		In patients with PAH receiving		
		warfarin-type anticoagulants, concomitant administration of		
		ambrisentan did not result in a		
		clinically relevant change in PT,		
		INR or anticoagulant dose (see 10.3		
		Pharmacokinetics).		

Teva-Ambrisentan Page 18 of 40

9.5 Drug-Food Interactions

Teva-Ambrisentan can be taken with or without food (see 10.3Pharmacokinetics).

9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

9.7 Drug-Laboratory Test Interactions

Interactions with laboratory tests have not been established.

10 CLINICAL PHARMACOLOGY

10.1 Mechanism of Action

Ambrisentan is an orally active, propanoic acid-class, endothelin receptor antagonist (ERA) that is selective for the endothelin type A (ETA) receptor. Selective inhibition of the ETA receptor inhibits phospholipase C-mediated vasoconstriction and protein kinase C-mediated cell proliferation, while preserving nitric oxide and prostacyclin production, cyclic GMP- and cyclic AMP-mediated vasodilation, and endothelin-1 (ET-1) clearance that is associated with the endothelin type B (ETB) receptor.

Ambrisentan is a specific, competitive endothelin receptor antagonist, with ETA receptor selectivity. This pharmacologic property is the primary mode of action of ambrisentan. Pharmacological activity of ambrisentan has been evaluated in a series of assays and animal models.

10.2 Pharmacodynamics

Cardiopulmonary Hemodynamics

Invasive hemodynamic parameters were assessed in patients with pulmonary arterial hypertension (PAH) at baseline and after 12 weeks (n=29) in a Phase II study. The cardiac index for treatment with ambrisentan tablets 5 mg and 10 mg was increased by 0.5 L/min/m² (95% CI: -0.01 to 0.95; p=0.0518) and 0.4 L/min/m² (95% CI: -0.02 to 0.76; p=0.0560), respectively. The mean pulmonary artery pressure for treatment with ambrisentan tablets 5 mg and 10 mg were -4.3 mmHg (95% CI: -8.0 to -0.6; p=0.0272) and -13.3 mmHg (95% CI: -26.1 to -0.6; p=0.0460), respectively. The mean pulmonary vascular resistance for treatment with ambrisentan tablets 5 mg and 10 mg were -3.5 mmHg/L/min (95% CI: -6.0 to -0.94; p=0.0131) and -4.3 mmHg/L/min (95% CI: -11.3 to 2.7; p=0.1179), respectively. There was no significant reduction in mean right atrial pressure.

B-type Natriuretic Peptide

Two Phase III placebo-controlled studies demonstrated that plasma concentrations of BNP in patients who received ambrisentan tablets for 12 weeks decreased by 29% in the 2.5 mg, 30% in

Teva-Ambrisentan Page 19 of 40

the 5 mg, and 45% in the 10 mg group (p < 0.001 for each dose group) and increased by 11% in the placebo group.

Cardiac Electrophysiology

In a randomized, positive- and placebo-controlled, parallel-group study, healthy subjects received either ambrisentan tablets 10 mg daily followed by a single dose of 40 mg, placebo followed by a single dose of moxifloxacin 400 mg, or placebo alone. Ambrisentan tablets 10 mg daily had no significant effect on the QTc interval. The 40 mg dose of ambrisentan tablets increased mean QTc at t_{max} by 5 ms with an upper 95% confidence limit of 9 ms. The effect of concomitant therapy of ambrisentan tablets with metabolic inhibitors of ambrisentan (i.e. ketoconazole, cyclosporine A) on QT prolongation is unknown (see 9 DRUG INTERACTIONS).

Primary Pharmacodynamics

In vitro studies using membrane preparations from human ventricular myocytes, showed that ambrisentan is an endothelin antagonist with a Ki of 16 pM against ETA receptors. The selectivity of ambrisentan for ETA receptors over ETB receptors is about 4000-fold. The relative affinity of the R- enantiomer was markedly weaker as compared to the value for the S-enantiomer. In vivo studies have been performed in a rat model of endothelin-induced hypertension. Ambrisentan dose-dependently (1, 3, or 10 mg/kg p.o.) reduced the increases in arterial pressure resulting from endothelin (Big ET-1) infusion.

No studies were performed on the pharmacodynamic effects of ambrisentan in animal models of pulmonary hypertension.

Secondary Pharmacodynamics

When tested for specificity using a battery (100) of receptors and ion channels, ambrisentan at 10 μ M was not active (< 50% inhibition). The R-enantiomer and 4-hydroxymethyl metabolite of ambrisentan were also inactive in a similar specificity panel.

In normotensive rats, oral administration of 300 mg/kg of ambrisentan or intravenous administration of 100 mg/kg ambrisentan caused initial increases in arterial pressure and heart rate that were followed by sustained reductions in these cardiovascular parameters.

In normotensive dogs, oral administration of 1, 10, and 100 mg/kg of ambrisentan caused dose-dependent reductions in arterial pressure that were not compensated for by increased heart rate.

Safety Pharmacology

Safety pharmacology studies were conducted to examine the effect of ambrisentan on the central and peripheral nervous system, cardiovascular and respiratory, gastrointestinal and renal systems, as well as cardiac conductivity (hERG cell current and guinea pig papillary muscle), uterine smooth muscle contractility, blood coagulation and spleen cell mitogenicity.

There was no evidence of overt central or peripheral effects in mice and rats after intravenous and oral administration of doses up to 100 mg/kg and 300 mg/kg, respectively.

The results from these safety pharmacology tests indicate that high concentrations of ambrisentan produced little to no effects in *in vitro*, *ex vivo* and in whole animal models and suggests minimal risk for

Teva-Ambrisentan Page 20 of 40

off-target biological effects; however, large single doses of ambrisentan could lower arterial pressure and have the potential for causing hypotension and symptoms related to vasodilation. In addition, in rats, ambrisentan (single i.v. or oral doses) reduced renal sodium, chloride and calcium excretion rates in a dose-dependent manner.

No pharmacodynamic drug interaction studies were performed.

Long-term Treatment

Eligible Patients from the two pivotal studies, ARIES-1 and ARIES-2, were enrolled into an open-label extension study: ARIES-E. The main purpose of ARIES-E was to evaluate the incidence and severity of adverse events associated with long-term exposure to ambrisentan tablets, including the effects on serum amino transferases. Patients who received ambrisentan tablets in ARIES-1 and ARIES-2 remained on their current dose at enrolment into ARIES-E, where as patients who received placebo were randomized to ambrisentan tablets 2.5 mg, 5 mg or 10 mg once daily (N=383). Patients could be up-titrated or down-titrated and could receive prostanoid drugs approved for PAH therapy as needed in the course of ARIES-E (13% of patients required prostanoid therapy). Of the 96 patients on 2.5 mg, 190 on 5 mg and 97 on 10 mg at randomization, 82%, 68% and 49% remained in the study at 1, 2 and 3 years, respectively and 91%, 83%, 79% of these patients were on ambrisentan monotherapy during these time periods.

Survival

In ARIES-E, patients who were treated with ambrisentan tablets (2.5 mg, 5 mg, or 10 mg once daily), Kaplan-Meier estimates of survival at 1, 2, and 3 years were 93%, 85%, and 79%, respectively. Of the patients who remained on ambrisentan tablets for up to 3 years, the majority received no other treatment for PAH as mentioned above. A dose-response relationship was not observed. These uncontrolled observations do not allow comparison with a group not given ambrisentan tablets and cannot be used to determine the long-term effect of ambrisentan tablets on mortality.

Efficacy

In general, benefits observed during the placebo-controlled trials, ARIES-1 and ARIES-2, were maintained in the majority of the patients remaining in ARIES-E during the full period of observation.

10.3 Pharmacokinetics

Absorption

Ambrisentan is absorbed rapidly in humans. The absolute bioavailability of ambrisentan tablets is not known. After oral administration, maximum plasma concentrations (C_{max}) of ambrisentan tablets typically occurs between 1 and 2 hours post dose under both fasted and fed conditions. C_{max} and area under the plasma concentration-time curve (AUC) increase dose proportionally over the therapeutic dose range. Steady- state is generally achieved following 4 days of repeat dosing.

A food-effect study involving administration of ambrisentan tablets to healthy volunteers under fasting conditions and with a high-fat meal indicated that the C_{max} was decreased 12% while the AUC remained unchanged. This decrease in peak concentration is not clinically significant, and therefore ambrisentan tablets can be taken with or without food.

Teva-Ambrisentan Page 21 of 40

Distribution

Ambrisentan tablets is highly plasma protein bound. The *in vitro* plasma protein binding of ambrisentan was, on average, 99% and independent of concentration over the range of $0.2 - 20 \,\mu\text{g/mL}$. Ambrisentan is primarily bound to albumin (96.5%) and to a lesser extent to alpha1-acidglycoprotein. The distribution of ambrisentan tablets in stored blood cells is low, with a mean blood:plasma ratio of 0.57 and 0.61 in males and females, respectively.

Metabolism

Ambrisentan is primarily glucuronidated via several UGT isoenzymes (UGT1A9S, UGT2B7S, and UGT1A3S) to form ambrisentan glucuronide (13%). To a lesser extent, ambrisentan also undergoes oxidative metabolism mainly by CYP3A4 and to an even lesser extent by CYP3A5 and CYP2C19 to form 4- hydroxymethyl ambrisentan (21%) which is further glucuronidated to 4-hydroxymethyl ambrisentan glucuronide (5%). The binding affinity of 4-hydroxymethyl ambrisentan for the human endothelin receptor is 65-fold less than ambrisentan. Therefore at concentrations observed in the plasma (approximately 20% relative to parent ambrisentan), 4-hydroxymethyl ambrisentan is not expected to contribute to pharmacological activity of ambrisentan.

Interaction of ambrisentan tablets with UGTs, cytochromes and drug transporters have been studied in vitro (see Error! Reference source not found.).

Elimination

Ambrisentan) tablets and its metabolites are primarily found in the feces following hepatic and/or extra-hepatic metabolism. Approximately 22% of the administered dose is recovered in the urine following oral administration with 3.3% being unchanged ambrisentan. The half-life after multiple dosing is approximately 15 hours (range 13.6 to 16.5 hours) in healthy volunteers and 9 to 15 hours in PAH patients. The mean oral clearance of ambrisentan is 38 mL/min and 19 mL/min in healthy subjects and in PAH patients, respectively.

Special Populations and Conditions

Pediatrics

Safety and efficacy of ambrisentan tablets have not been established in patients under 18 years of age.

Geriatrics

Based on the results of a population pharmacokinetic analysis in healthy volunteers and patients with PAH, the pharmacokinetics of ambrisentan tablets were not significantly influenced by age (see 4 DOSAGE AND ADMINISTRATION)

Gender

Based on the results of a population pharmacokinetic analysis in healthy volunteers and patients with PAH, the pharmacokinetics of ambrisentan tablets were not significantly influenced by gender.

Teva-Ambrisentan Page 22 of 40

Hepatic Insufficiency

The pharmacokinetics of ambrisentan tablets in patients with severe hepatic impairment or with clinically significant elevated hepatic transaminases has not been studied. However, since the main routes of metabolism of ambrisentan tablets are glucuronidation and oxidation with subsequent elimination in the bile, hepatic impairment might be expected to increase exposure (C_{max} and AUC) of Ambrisentan tablets, however the magnitude of this and any effect on safety and efficacy has not been evaluated. Therefore, Teva-Ambrisentan is contraindicated in patients with severe hepatic impairment or levels of ALT/AST >3x ULN. Teva-Ambrisentan should be used with caution in patients with moderate hepatic impairment (see 7 WARNINGS AND PRECAUTIONS, Hepatic/Biliary/Pancreatic, and 4 DOSAGE AND ADMINISTRATION).

Renal Insufficiency

No pharmacokinetic studies have been conducted in renally impaired patients. However, the renal excretion of ambrisentan tablets is minimal, therefore renal impairment should not significantly increase exposure to Teva-Ambrisentan.

11 STORAGE, STABILITY AND DISPOSAL

Store between 15-30°C.

12 SPECIAL HANDLING INSTRUCTIONS

There are no special handling instructions.

Teva-Ambrisentan Page 23 of 40

PART II: SCIENTIFIC INFORMATION

13 PHARMACEUTICAL INFORMATION

Drug Substance

Common name: ambrisentan

Chemical name: (2S)-2-[(4,6-dimethylpyrimidin-2-yl)oxy]-3-methoxy-3,3-diphenylpropanoic acid

Molecular formula and molecular mass: C₂₂H₂₂N₂O₄, 378.42 g/mol

Structural formula:

Physicochemical properties: Ambrisentan is a white to light yellow, crystalline solid. It is a carboxylic acid with a pKa of 4.0. Ambrisentan is practically insoluble in water and in aqueous solutions at low pH. Solubility increases in aqueous solutions at higher pH. In the solid state ambrisentan is very stable, is not hygroscopic, and is not light sensitive.

14 CLINICAL TRIALS

14.1 Trial Design and Study Demographics

Table 5 Summary of the Design and Patient Demographics in Pivotal Clinical Trials of ambrisentan tablets in Patients with Pulmonary Arterial Hypertension (PAH)

Study	Trial design	Dosage, route of administration and duration	Studysubjects (n=number randomized)	Mean age (range)	Sex	PAH Etiology n (%)
ARIES-1	Phase III, randomized, double-blind, placebo- controlled, multicentre, multinational	5 mg and 10 mg tablets taken orally q.d. for 12 weeks	Placebo: n=67 5 mg: n=67 10 mg: n=67	50.1 (17-82)	Male: 33 (16.4%) Female: 168 (83.6%)	IPAH*:126 (62.7%) Non-IPAH: 75 (37.3%)

Teva-Ambrisentan Page 24 of 40

Study	Trial design	Dosage, route of administration and duration	Studysubjects (n=number randomized)	Mean age (range)	Sex	PAH Etiology n (%)
ARIES-2	Phase III, randomized, double-blind, placebo- controlled, multicentre, multinational	2.5 mg and 5 mg tablets taken orally q.d. for 12 weeks	Placebo: n=65 2.5 mg: n=64 5 mg: n=63	50.9 (20-81)	Male: 49 (25.5%) Female: 143 (74.5%)	IPAH*:125 (65.1%) Non-IPAH: 67 (34.9%)

^{*}IPAH = idiopathic PAH

Ambrisentan Monotherapy for the Treatment of PAH

Two randomised, double-blind, multi-centre, placebo controlled, Phase III pivotal studies were conducted (ARIES-1 and ARIES-2). The design and patient demographics are shown in Table 6. In both studies, ambrisentan was added to patients' supportive/background medication, which may have included a combination of digoxin, anticoagulants, diuretics, oxygen and vasodilators (calcium channel blockers, ACE inhibitors). The primary study endpoint was 6-minute walk distance (6MWD). In addition, clinical worsening, WHO functional class, Borg Dyspnea Index and SF-36 Health Survey were assessed.

Non-IPAH was predominately associated with connective tissue disease, and a few percent associated with anorexigenuse or HIV infection. The majority of patients had WHO functional Class II (38%) or Class III (55%) symptoms.

Study Results

Results of Ambrisentan Monotherapy for the Treatment of PAH

The primary endpoint defined for these studies was improvement in exercise capacity assessed by change from baseline in 6MWD at 12 weeks. In both studies, treatment with ambrisentan resulted in a statistically significant improvement in 6MWD for each dose of ambrisentan as shown in Table 7. The improvement in exercise capacity was evident after 4 weeks of treatment and was maintained at week 12 of the double-blind treatments as illustrated in **Figure 1**.

Table 6 Changes from Baseline in 6-minute Walk Distance (metres) at Week 12 in Phase III studies (Idiopathic and Non-Idiopathic PAH Patients: see also Table 10)

		ARIES-1			ARIES-2			
	Placebo	5 mg	10 mg	Placebo	2.5 mg	5 mg		
	(N=67)	(N=67)	(N=67)	(N=65)	(N=64)	(N=63)		
Baseline	341.9 ±	339.6 ±	341.5 ±	342.7 ±	347.3 ±	355.3 ±		
	73.47	76.68	78.28	85.93	83.81	84.45		

Teva-Ambrisentan Page 25 of 40

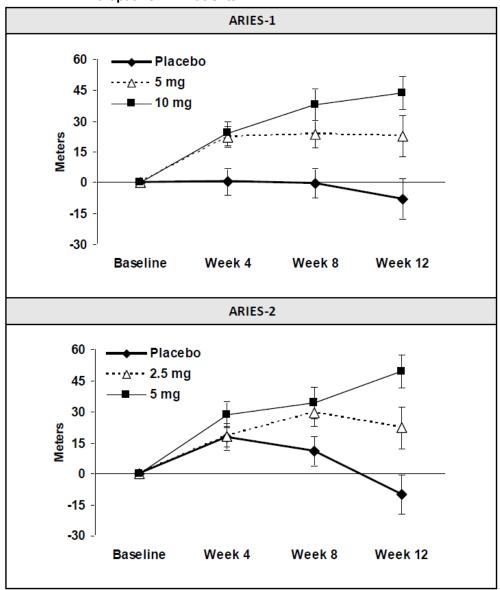
		ARIES-1			ARIES-2	
	Placebo (N=67)	5 mg (N=67)	10 mg (N=67)	Placebo (N=65)	2.5 mg (N=64)	5 mg (N=63)
Mean change	-7.8 ±	22.8±	43.6±	-10.1 ±	22.2 ±	49.4 ±
from baseline	78.88	82.98	65.91	93.79	82.67	75.36
Median change from baseline	0.5	21.1	32.5	-3.5	27.5	40.0
Placebo adjusted mean change from baseline		30.6	51.4		32.3	59.4
95% CI		2.9, 58.3	26.6, 76.2		1.5, 63.1	29.6, 89.3
p-value†		0.008	<0.001		0.022	<0.001

Mean ± standard deviation

Teva-Ambrisentan Page 26 of 40

[†] p-values are Wilcoxon rank sum test comparisons of ambrisentan to placebo at Week 12 stratified by idiopathic PAH and non-idiopathic PAH patients

Figure 1 Mean Change in 6-minute Walk Distance (Phase III Studies) in Idiopathic and Non-Idiopathic PAH Patients



Mean change from baseline in 6-minute walk distance in the placebo and Ambrisentan Values are expressed as mean ±standard error of mean.

Symptoms of PAH were assessed using Borg Dyspnea Index (BDI), WHO functional class and SF-36 Health Survey physical functioning scale. Treatment with ambrisentan led to statistically significant improvements in BDI at week 12 (Table 7). Improvements in the physical functioning scale (SF-36) were also observed, however, were not statistically significant.

Teva-Ambrisentan Page 27 of 40

Table 7 Summary of Secondary Endpoints from Study ARIES-1 and ARIES-2 at 12 Weeks (Population ITT)

			ARIES-1			ARIES-2	
		Placebo	Ambrisentan 5 mg	Ambrisentan 10 mg	Placebo	Ambrisentan 2.5 mg	Ambrisentan 5 mg
Change in Borg Dyspnea Index (BDI)	Change from baseline to Week 12	0.0 (-0.55, 0.54)	-0.3 (-0.79, 0.16)		0.8 (0.17, 0.54)	-0.2 (-0.74, 0.34)	-0.4 (-0.87, 0.14)
(601)	Comparison vs placebo, point estimate (95% CI)		-0.3 (-1.0, 0.4) p=0.316	-0.9 (-1.6, -0.2) p=0.002 +		-1.0 (-1.9, -0.2) p=0.046 +	-1.2 (-2.0, -0.4) p=0.040 +
Change in WHO	Improved	16 (23.9%)	19 (28.4%)	20 (29.9%)	11 (16.9%)	10 (15.6%)	9 (14.3%)
Class, N (%)	Deteriorate d	11 (16.4%)	1 (1.5%)	3 (4.5%)	12 (18.5%)	3 (4.7%)	2 (3.2%)
	Comparison with placebo ¹		p=0.0726 -	p=0.0957 -		p= 0.2058 -	p=0.1872 -
Change in SF-36 Physical compone	Change from baseline, Mean (SD)	1.82 (9.25)	1.88 (8.68)	4.79 (7.90)	-0.15 (7.29)	3.78 (7.63)	2.97 (7.79)
nt summary	Comparison with placebo		p=0.992 -	p=0.056 -		0.005 +	0.052 -

¹ Based on analysis of 7-point change from baseline scale

Ambrisentan delayed clinical worsening (the measure included a benefit for both death and hospitalization for PAH), although this did not reach a level of statistical significance. Time to clinical worsening of PAH was defined as the time from randomization to the first occurrence of death, lung transplantation, hospitalization for PAH, atrial septostomy, study discontinuation due to the addition of other PAH therapeutic agents, or study discontinuation due to two or more early escape criteria (see Table 8).

Table 8 Summary of Clinical Worsening of PAH Events from Study ARIES-1 and ARIES-2 at 12

Teva-Ambrisentan Page 28 of 40

⁺ statistically significant result, - not statistically significant

Weeks (Population ITT)

Treatment Group		ARIES-1		ARIES-2		
Event n (%)	Placebo (N=67)	Ambrisentan 5 mg (N=6 7)	Ambrisentan 10 mg (N=67)	Placebo (N=65)	Ambrisenta n 2.5 mg (N=64)	Ambrisentan 5 mg (N=63)
Death	2 (3.0)	1 (1.5)	1 (1.5)	3 (4.6)	2 (3.1)	0 (0.0)
Lung transplantation	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Hospitalization for PAH	2 (3.0)	2 (3.0)	2 (3.0)	9 (13.8)	3 (4.7)	2 (3.2)
Atrial septostomy	0 (0.00)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Study discontinuation due to addition PAH treatment	1 (1.5)	0 (0.0)	1 (1.5)	0 (0.0)	0 (0.0)	0 (0.0)
Escape criteria	3 (4.5)	0 (0.0)	2 (3.0)	7 (10.8)	2 (3.1)	1 (1.6)
Total subjects with ≥1 events	6 (9.0)	3 (4.5)	3 (4.5)	14 (21.5)	3 (4.7)	3 (4.8)
p-value (ambrisentan vs placebo)*		0.4925	0.4925		0.008	0.008

^{*}Fisher exact test comparison to placeb

In the ARIES studies, those patients with WHO functional class II symptoms at baseline had a mean BDI of 2.98, a mean 6MWD of 375 m; 47% had a 6MWD of more than 400 m. Those with WHO functional class III symptoms had a mean BDI of 4.38 and a mean 6MWD of 330 m at baseline.

In patients with class II and class III symptoms, increases in mean 6MWD were observed with 5 mg and 10 mg ambrisentan compared to placebo after 12 weeks treatment (Table 9). Improvement in secondary endpoints also supported efficacy in both WHO functional class II and class III patients.

Table 9 Improvement in 6MWD at Week 12 in Phase III Studies in patients with WHO Functional Class II symptoms or WHO Functional Class III symptoms (Population ITT)

		ARIES-1			ARIES-2		
		Placebo	Ambrisentan	Ambrisentan	Placebo	Ambrisentan	Ambrisentan
			5 mg	10 mg		2.5 mg	5 mg
WHO	Change in	-0.3	+26.6	+43.4	-7.3	+37.0	+61.4
Class II	6MWD	(-19.3,	(-1.0, 54.2)	(17.6, 69.2)	(-45.9,	(9.1,64.9)	(31.3, 91.5)
	from	18.7)			31.4)		
	baseline to						

Teva-Ambrisentan Page 29 of 40

			ARIES-1			ARIES-2	
		Placebo	Ambrisentan	Ambrisentan	Placebo	Ambrisentan	Ambrisentan
			5 mg	10 mg		2.5 mg	5 mg
	Week 12,						
	mean (95%						
	CI)						
	Placebo-		27.0	43.7		+44.2	+68.6
	Adjusted		(-4.8,	(12.8,		(-1.1,	(21.5,
	improveme		58.7)	74.7)		89.6)	115.8)
	nt in		p=0.0460	p=0.0072		p=0.0624	p=0.0104
	6MWD,						
	mean (95%						
	CI)						
WHO	Change in	-15.2	+18.7	+42.2	-15.2	+6.2	+38.3
Class III	6MWD	(-45.0,	(-5.8, 43.3)	(21.0, 63.4)	(-48.3,	(-26.2, 38.7)	(11.7, 64.9)
	from	14.5)			17.8)		
	baseline to						
	Week 12,						
	mean (95%						
	CI)						
	Placebo-		+34.0	+57.4		21.4	53.5
	Adjusted		(-4.1,	(20.5,		(-24.8,	(11.2,
	improveme		72.1)	94.3)		67.7)	95.8)
	nt in		p=0.0624	p=0.0187		p=0.4500	p=0.0217
	6MWD,						
	mean (95%						
	CI)						

A summary of the 6-Minute Walk Distance (6MWD) change from baseline to Week 12 is provided in Table 10.

Table 10 Summary of 6-Minute Walk Distance Change from Baseline to Week 12 by PAH Stratification using LOCF (Population: ITT)

			ARIES-1			ARIES-2		
Treatment Group		Placebo	Ambrisentan 5 mg	Ambrisentan 10 mg	Placebo	Ambrisentan 2.5 mg	Ambrisentan 5 mg	
IPAH								
Change from	N	43	42	41	42	42	41	
baseline to Week 12	Mean (SD)	-6.3 (82.14)	36.6 (85.42)	50.6 (58.22)	-20.6 (101.23)	35.7 (67.97)	55.1 (86.58)	

Teva-Ambrisentan Page 30 of 40

			ARIES-1			ARIES-2	
Treatment Grou	Treatment Group		Ambrisentan 5 mg	Ambrisentan 10 mg	Placebo	Ambrisentan 2.5 mg	Ambrisentan 5 mg
Comparison versus placebo	Point estimate		42.9	56.9		56.3	75.7
	p-value ¹		0.0053	0.0011		0.005	<0.001
Non-IPAH							
Change from baseline to Week 12	N	24	25	26	23	22	22
	Mean (SD)	-10.6 (74.32)	-0.4 (74.69)	32.4 (76.38)	9.1 (76.77)	-3.5 (102.10)	38.6 (47.96)
Comparison versus placebo	Point estimate		10.2	43.0		-12.6	29.5
	p-value ¹		0.4965	0.0487		1.000	0.170

¹Wilcoxon rank sum test stratified by IPAH and non-IPAH subjects

Hepatic Safety

Hepatic function was assessed in clinical studies. In ARIES 1 and 2, there were no cases of aminotransferase abnormalities >3x the upper limit of normal (ULN) in 262 patients receiving ambrisentan compared with three cases (out of 132) in patients receiving placebo (2.3%). The cumulative incidence of serum aminotransferase abnormalities >3x ULN in all Phase II and III (including extension) studies was 3.5% (17 of 483 subjects over a mean exposure duration of 79.5 weeks). In the ARIES-E open label long term extension study of ARIES-1 and ARIES-2 (N=383), the 2 year risk of developing serum aminotransferase elevations >3x ULN in patients treated with v was 3.9%.

14.3 Comparative Bioavailability Studies

A randomized, single-dose, two-way crossover bioavailability study comparing 1 x 10 mg doses of Teva-Ambrisentan (Teva Canada Limited) and Volibris® (Glaxosmithkline Inc. Canada) tablets was conducted in 18 healthy adult male subjects under fasting conditions. The comparative bioavailability data are presented in the following table:

Teva-Ambrisentan Page 31 of 40

SUMMARY TABLE OF THE COMPARATIVE BIOAVAILABILITY DATA

	Ambrisentan									
	(1 x 10 mg)									
		From measured da	ata							
		Geometric Mear	1							
		Arithmetic Mean (C	V %)							
Parameter	Test ¹	Reference ²	% Ratio of	90% Confidence						
Parameter	rest	Reference	Geometric Means	Interval(%)						
AUC _T	9544.01	9375.75	101.79	98.37 - 105.34						
(h*ng/mL)	9684.97 (17.60)	9489.34 (15.58)								
AUCı	9772.00	9641.02	101.36	97.91 - 104.93						
(h*ng/mL)	9924.31 (18.16)	9753.23 (15.30)								
C _{max}	1263.25	1222.47	103.34	96.52 - 110.64						
(ng/mL)	1275.91 (14.17)	1240.79 (17.68)								
T _{max} ³	1.76 (0.50 – 5.00)	2.25 (1.00 – 4.00)								
(h)										
T _{1/2} ⁴	9.00 (10.40)	8.98 (12.71)								
(h)										

¹ Teva-Ambrisentan (Ambrisentan) 10 mg tablets (Teva Canada Limited)

15 MICROBIOLOGY

No microbiological information is required for this drug product.

16 NON-CLINICAL TOXICOLOGY

General Toxicology

The principal findings in repeat dose toxicity studies in mice and rats with ambrisentan are in part attributed to exaggerated pharmacology and include effects in the nasal cavity and testes. Repeat dose studies in the dog reveal ambrisentan to be well tolerated with findings limited to fundic glandular atrophy and clinical signs of audible breathing and gastrointestinal disturbance. Deaths or findings resulting in early sacrifice of animals attributed to oral administration of ambrisentan occurred in repeat-dose toxicity studies in rats at ≥100 mg/kg/day and in dogs at 1500 mg/kg/day. An increased mortality rate also occurred in 2-year carcinogenicity studies in rats at 30/20 and 60/40 mg/kg/day (initial daily dose of 30 mg/kg/day subsequently lowered to 20 mg/kg/day, and 60 mg/kg/day subsequently lowered to 40 mg/kg/day) and mice at 250/150 mg/kg/day (initial daily dose of 250 mg/kg/day subsequently lowered to 150 mg/kg/day).

Inflammation and changes in the nasal cavity epithelium and/or turbinates have been seen with

Teva-Ambrisentan Page 32 of 40

²Volibris[®] (Ambrisentan) 10 mg tablets (GlaxoSmithKline Inc., Canada)

³ Expressed as median (range)

⁴ Expressed as the arithmetic mean (CV%)

chronic administration of ambrisentan and other endothelin receptor antagonists(ERAs) to rodents and, to a lesser extent, dogs.

Carcinogenicity

There was no evidence of carcinogenic potential in 2 year oral daily dosing studies in rats and mice. There was a small increase in mammary fibroadenomas, a benign tumor, in male rats at the highest dose only.

Genotoxicity

The genotoxicity of ambrisentan was assessed in a comprehensive battery of *in vitro* and *in vivo* studies. Ambrisentan was clastogenic in human lymphocytes *in vitro* both in the presence and absence of metabolic activation. Ambrisentan was not mutagenic to Salmonella typhimurium, did not elicit unscheduled DNA synthesis in rat liver, and was not clastogenic in an *in vivo* micronucleus study conducted in male rats.

Reproductive and Developmental Toxicity

The development of testicular tubular atrophy and sterility in male animals has been linked to the chronic administration of ERAs, including ambrisentan, to rodents. Testicular tubular atrophy was observed at all dose levels (10 to 300 mg/kg/day) in oral fertility studies with male rats that was not reversible after 13 or 20 weeks following cessation of dosing. Reduced fertility and morphologic effects on sperm only occurred at 300 mg/kg/day and were reversible. No effects on sperm count or sperm motility were observed. Testicular tubular atrophy (focal/multifocal or diffuse) was also observed in repeat dose studies in rats and mice. There were no significant effects on fertility or embryo fetal development in female rats dosed up to the time of implantation.

Teratogenicity is a class effect of ERAs. The effect of ambrisentan on embryo-fetal development has been assessed in rats and rabbits after oral dose administration on gestation days 6-17 and 6-18, respectively. In both species, abnormalities of the lower jaw, tongue, and/or palate were consistently observed at all dose levels. Additionally, interventricular septal defects, trunk vessel defects, thyroid and thymus abnormalities, ossification of the basisphenoid bone, and the occurrence of the umbilical artery located on the left side of the urinary bladder instead of the right side and heart and associated blood vessel abnormalities were seen in the rabbit study.

Juvenile Toxicity

In a juvenile rat study, oral administration of ambrisentan once daily during postnatal day (PND) 7 to 62 decreased brain weight -4% in males and females with no brain morphologic effects at 20 mg/kg/day, after a period of breathing sounds which occurred at doses of 4 mg/kg/day and above (1.5 to 6.4 times higher than the maximum recommended human adult dose of 10 mg, based on AUC). In two separate respiratory function juvenile rat studies, 20 mg/kg/day of ambrisentan administered on PND 7 to 26 or PND 7 to 36 evoked decreases in brain weight (-3% to -8%), and also caused breathing sounds (a singular audible click), irregular respiratory function, apnea and hypoxia starting 10 days after dosing, and continuing two days after treatment stopped, with no detection of these effects at one month after

Teva-Ambrisentan Page 33 of 40

dose interruption. There were no neurobehavioral changes observed at the end of treatment and one month after dose interruption, and a morphometric assessment of changes to the pharynx and larynx was inconclusive. Although the mechanisms by which ambrisentan reduces brain weight of juvenile rats have not been fully elucidated, it is plausible that this effect is mediated by chronic hypoxia that may be associated with mechanically induced apnea originating from pharyngeal dysmorphogenesis occurring during postnatal pharyngeal development. The clinical relevance of this finding in humans is unknown; however, this postnatal time frame would likely correlate to human pharyngeal development from 0 to 3 years of age. Safety and efficacy of ambrisentan have not been established in patients under 18 years of age. Teva-Ambrisentan should therefore not be used in this age group.

17 SUPPORTING PRODUCT MONOGRAPHS

1. PrVOLIBRIS® Tablets (ambrisentan tablets, 5 mg and 10 mg), Submission Control No. 248077, Product Monograph, GlaxoSmithKline, Revision date July 02, 2021.

Teva-Ambrisentan Page 34 of 40

PATIENT MEDICATION INFORMATION

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

PrTeva-Ambrisentan ambrisentan tablets

Read this carefully before you start taking **Teva-Ambrisentan** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **Teva-Ambrisentan**.

What is Teva-Ambrisentan used for?

Teva-Ambrisentan is used in adults to treat high blood pressure in the pulmonary arteries. They are blood vessels that carry blood away from the heart to the lungs.

How does Teva-Ambrisentan work?

Teva-Ambrisentan is an endothelin receptor antagonist (ERA).

It reduces high blood pressure by relaxing the pulmonary arteries. This makes it easier for the heart to pump blood to the lungs.

What are the ingredients in Teva-Ambrisentan?

Medicinal ingredients: ambrisentan

Non-medicinal ingredients: croscarmellose sodium, lactose monohydrate, lecithin, macrogol/polyethylene glycol 3350/ 4000, magnesium stearate, microcrystalline cellulose, polyvinyl alcohol, talc, and titanium dioxide.

Teva-Ambrisentan comes in the following dosage forms:

Tablets: 5 mg and 10 mg

Do not use Teva-Ambrisentan if:

- you are pregnant, are planning to become pregnant, or could become pregnant because you are not using reliable birth control (see Other warnings you should know about).
- you are breastfeeding or plan to breastfeed your baby.
- you are allergic to ambrisentan or to any of the other ingredients in Teva-Ambrisentan. Teva-Ambrisentan contains lactose, lecithin (soya)).
- you have liver disease or abnormal liver test results.
- have a lung condition called Idiopathic Pulmonary Fibrosis (IPF). The symptoms of this condition include:
 - Shortness of breath
 - Dry cough
 - o Fatigue
 - Joint or muscle pain

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take Teva-Ambrisentan. Talk about any health conditions or problems you may have, including if you:

Teva-Ambrisentan Page 35 of 40

- have swelling
- have a low amount of red blood cells (anemia)
- have or ever had liver problems

Other warnings you should know about:

Teva-Ambrisentan can cause serious side effects, including:

- Peripheral edema (swelling of the legs or hands caused by fluid retention): This may happen
 within weeks after starting Teva-Ambrisentan. You are at a higher risk of experiencing it if
 you:
 - o take high doses of Teva-Ambrisentan
 - o are 65 years of age or older

Tell your healthcare professional if you experience swelling in your hands or legs while taking Teva-Ambrisentan.

- Anemia (decreased number of red blood cells): This may happen within weeks after starting Teva-Ambrisentan. Tell your healthcare professional if you experience signs of anemia while taking Teva-Ambrisentan.
- **Liver problems:** Stop taking Teva-Ambrisentanand tell your healthcare professional **right away** if you experience:
 - o signs and symptoms of liver problems
 - Worsening of liver disease.

See the Serious side effects and what to do about them table, below, for more information on these and other serious side effects.

Driving and operating machinery:

- It is not known whether Teva-Ambrisentan affects your ability to drive or use machines.
- You should not drive or use machines until you know how Teva-Ambrisentan affects you.
- If you ever feel sleepy or unwell, do not drive or use machines, and tell your healthcare professional.

Male fertility: During animal studies, reduced fertility was observed in male rats taking ambrisentan, the active ingredient in Teva-Ambrisentan. If you are a man taking Teva-Ambrisentan, it is possible that Teva-Ambrisentan may lower your sperm count. Talk to your healthcare professional if you wish to father a child, or have any questions or concerns about this.

Pregnancy:

- Teva-Ambrisentan should **not** be used during pregnancy. Taking it during pregnancy may cause injury to your baby
- If you are a woman who could become pregnant, your healthcare professional will ask you
 to take a pregnancy test before you start taking Teva-Ambrisentan and regularly while you
 are taking Teva-Ambrisentan.
- Use a highly effective birth control method while taking Teva-Ambrisentan. If you discover
 that you are pregnant while taking Teva-Ambrisentan, contact your healthcare professional
 as soon as possible.

Teva-Ambrisentan Page 36 of 40

Breastfeeding: It is not known whether Teva-Ambrisentan can pass into breastmilk. Teva-Ambrisentan should not be used during breastfeeding.

Children and adolescents(under 18 years of age): Teva-Ambrisentan is not to be used in children and adolescents under 18 years of age.

Laboratory tests and monitoring: Your healthcare professional will do tests, including blood tests, before you start Teva-Ambrisentan and regularly during treatment. These tests will check:

- The amount of red blood cells in your body.
- That your liver is working properly.
- If you are pregnant.

Depending on your test results, your healthcare professional may adjust your dose, stop or discontinue your treatment with Teva-Ambrisentan.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

The following may interact with Teva-Ambrisentan:

- Cyclosporine A used to treat certain autoimmune diseases and to prevent rejection of organ transplants
- Sildenafil, tadalafil used to treat erectile dysfunction or high blood pressure in the lungs
- Ketoconazole used to treat fungal skin infections
- Digoxin used to treat heart conditions

How to take Teva-Ambrisentan:

Take Teva-Ambrisentan:

- exactly as your healthcare professional tells you.
- with or without food

Usual dose:

- The initial dose of Teva-Ambrisentan is 5 mg, once a day. Your healthcare professional may decide to increase your dose to 10 mg, once a day.
- The maximum recommended daily dose is 10 mg.
- If you take cyclosporine A, do not take more than 5 mg of Teva-Ambrisentan, once per day.

Overdose:

If you think you, or a person you are caring for, have taken too much Teva-Ambrisentan, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

Missed Dose:

If you forget to take Teva-Ambrisentan, take the missed dose as soon as you remember, then continue with the next dose at your usual time. Do not take a double dose to make up for the one that you missed.

Teva-Ambrisentan Page 37 of 40

What are possible side effects from using Teva-Ambrisentan?

These are not all the possible side effects you may have when taking Teva-Ambrisentan. If you experience any side effects not listed here, tell your healthcare professional. Side effects may include:

- Headache
- Stuffy nose
- Sore throat
- Constipation
- Pain in the abdomen
- Problems with sinuses
- Feeling sick
- Vomiting
- Feeling weak or tired
- Skin rash
- Hot flashes
- Ringing in the ears
- Changes in vision, including blurry vision

If any of these affects you severely, tell your healthcare professional.

Serious side	e effects and what to	do about them	
	Talk to your health	care professional	Stop taking drug and
Symptom/ effect	Only if severe	In all cases	get immediate medical help
VERY COMMON			
Peripheral edema (swelling of the legs or hands caused by fluid retention): swollen or puffy legs or hands, feeling heavy, achy or stiff		✓	
Anemia (decreased number of red blood cells): fatigue, loss of energy, irregular heartbeats, pale complexion, shortness of breath, weakness		✓	
Flushing (redness of the skin)		✓	
Dyspnea (shortness of breath)		✓	
Dizziness		✓	
Palpitations: fast and/or irregular heart beat		✓	
COMMON			
Allergic Reaction: difficulty swallowing or breathing, wheezing; drop in blood pressure; feeling sick to your stomach and throwing up; hives or rash; swelling of the face, lips, tongue or throat.		✓	

Teva-Ambrisentan Page 38 of 40

Serious side effects and what to do about them							
	Talk to your health	ncare professional	Stop taking drug and				
Symptom/ effect	Only if severe	In all cases	get immediate medical help				
RARE							
Liver problems: yellowing of your skin and eyes (jaundice), right upper stomach area pain or swelling, nausea or vomiting, unusual dark urine, unusual tiredness, loss of appetite		✓					
UNKNOWN							
Heart failure (heart does not pump blood as well as it should): shortness of breath, fatigue and weakness, swelling in ankles, legs and feet, cough, fluid retention, lack of appetite, nausea, rapid or irregular heartbeat, reduced ability to exercise		√					
Hypotension (low blood pressure): dizziness, fainting, light- headedness, blurred vision, nausea, vomiting, fatigue (may occur when you go from lying or sitting to standing up)		✓					

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

Store between 15-30°C.

Keep out of reach and sight of children.

Teva-Ambrisentan Page 39 of 40

If you want more information about Teva-Ambrisentan:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes
 this Patient Medication Information by visiting the Health Canada website:
 https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html; the manufacturer's website www.tevacanada.com.,
 or by calling 1-800-268-4127 ext. 3; or email druginfo@tevacanada.com.

This leaflet was prepared by Teva Canada Limited, Toronto, Ontario M1B 2K9

Last Approved: March 15, 2023

Teva-Ambrisentan Page 40 of 40