edarbyclor (azilsartan medoxomil and chorthalidone) tablets

# HIGHLIGHTS OF PRESCRIBING INFORMATION

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

# EDARBYCLOR (azilsartan medoxomil and chlorthalidone) tablets, for oral use

Initial U.S. Approval: 2011

# WARNING: FETAL TOXICITY

- See full prescribing information for complete boxed warning.
- When pregnancy is detected, discontinue EDARBYCLOR as soon as possible (5.1, 8.1) Drugs that act directly on the renin-angiotensin system
- can cause injury and death to the developing fetus (5.1, 8.1)

# -INDICATIONS AND USAGE-

Edarbyclor is a combination of azilsartan medoxomil, an angiotensin II receptor blocker (ARB) and chlorthalidone, a thiazide-like diuretic combination product indicated for the treatment of hypertension, to lower blood pressure:

- In patients not adequately controlled with monotherapy (1) As initial therapy in patients likely to need multiple drugs to help
- achieve blood pressure goals (1) Lowering blood pressure reduces the risk of fatal and nonfatal
- cardiovascular events, primarily strokes and myocardial infarctions (1)

# -----DOSAGE AND ADMINISTRATION-

- Starting dose is 40/12.5 mg once daily (2.1) Edarbyclor may be used to provide additional blood pressure lowering for patients not adequately controlled on azilsartan
- medoxomil 80 mg or chlorthalidone 25 mg (2.1) Dose may be increased to 40/25 mg after 2 to 4 weeks as needed to achieve blood pressure goals (2.1)
- Maximal dose is 40/25 mg (2.1)
- May be administered with other antihypertensive agents (2.1)

# FULL PRESCRIBING INFORMATION: CONTENTS\* WARNING: FETAL TOXICITY

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# FULL PRESCRIBING INFORMATION

- WARNING: FETAL TOXICITY When pregnancy is detected, discontinue Edarbyclor as
- soon as possible [see Warnings and Precautions (5.1) and Use in Specific Populations (8.1)].
- Drugs that act directly on the renin-angiotensin system can cause injury and death to the developing fetus [see Warnings and Precautions (5.1) and Use in Specific Populations (8.1)].

#### INDICATIONS AND USAGE 1

Edarbyclor is indicated for the treatment of hypertension, to lower blood pressure

Edarbyclor may be used in patients whose blood pressure is not adequately controlled on monotherapy.

Edarbyclor may be used as initial therapy if a patient is likely to need multiple drugs to achieve blood pressure goals.

Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions. These benefits have been seen in controlled trials of antihypertensive drugs from a wide variety of pharmacologic classes including thiazidelike diuretics such as chlorthalidone and ARBs such as azilsartan medoxomil. There are no controlled trials demonstrating risk reduction

with Edarbyclo

 Edarbyclor may be administered with or without food (2.1) Replace volume in volume-depleted patients prior to use (2.2)

# -- DOSAGE FORMS AND STRENGTHS--Tablets (azilsartan/chlorthalidone): 40/12.5 mg and 40/25 mg (3) ---CONTRAINDICATIONS---

- Anuria (4)
- Do not coadminister aliskiren-containing products with Edarbyclor in patients with diabetes (4)
- --WARNINGS AND PRECAUTIONS--- In patients with an activated renin-angiotensin-aldosterone system (RAAS), such as volume- and/or salt-depleted patients. Edarbyclor can cause excessive hypotension. Correct volume or salt depletion
- prior to administration of Edarbyclor (5.2) In patients with renal artery stenosis, Edarbyclor may cause renal failure (5.3)
- Monitor renal function in patients with renal impairment. Consider discontinuing Edarbyclor with progressive renal impairment (5.3) • Monitor serum electrolytes periodically (5.4)

# -----ADVERSE REACTIONS------

Most common adverse reactions (incidence  $\geq 2\%$ ) are dizziness and fatique (6.1)

### To report SUSPECTED ADVERSE REACTIONS, contact Arbor Pharmaceuticals, LLC at 1-866-516-4950 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

- ----DRUG INTERACTIONS--Renal clearance of lithium is reduced by diuretics, such as
- chlorthalidone increasing the risk of lithium toxicity (7) NSAIDS increase risk of renal dysfunction and interfere with
- antihypertensive effect (7) Dual inhibition of the renin-angiotensin system: Increased risk of
- renal impairment, hypotension, and hyperkalemia (7) • Lithium: Increases in serum lithium concentrations and lithium

# toxicity (7) -- USE IN SPECIFIC POPULATIONS---

Lactation: Breastfeeding is not recommended. See 17 for Patient Counseling Information and FDA-approved

patient labeling.

Revised: 03/2020

- 8.4 Pediatric Use
- 8.5 Geriatric Use
- 8.6 Renal Impairment
- 8.7 Hepatic Impairment

#### 10 OVERDOSAGE 11 DESCRIPTION

100

90

80

70

60

50

40

30

20

10

100

- **12 CLINICAL PHARMACOLOGY**
- 12.1 Mechanism of Action
  - 12.2 Pharmacodynamics
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- 13 NONCLINICAL TOXICOLOGY
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- 14 CLINICAL STUDIES
- 16 HOW SUPPLIED/STORAGE AND HANDLING 17 PATIENT COUNSELING INFORMATION

\*Sections or subsections omitted from the full prescribing information are not listed.

Figures 1.a-1.d provide estimates of the likelihood of achieving target

40/25 mg tablets after 8 weeks, based on baseline systolic or diastolic

blood pressure. The curve for each treatment group was estimated by

Figure 1.a Probability of Achieving Systolic Blood Pressure

<140 mmHg at Week 8

145 150 155 160 165 170 175 180 185

Baseline Systolic BP (mmHg

Figure 1.b Probability of Achieving Systolic Blood Pressure

<130 mmHg at Week 8

Edarbyclor 40/25 mg

Chlorthalidone 25 mg

nil 80 mg

Azilsartan

clinic systolic and diastolic blood pressure control with Edarbyclor

logistic regression modeling and is more variable at the tails.

Chlorthalidone Thiazides cross the placental barrier and appear in cord blood. Adverse reactions include fetal or neonatal jaundice and thrombocytopenia.

For example, a patient with a baseline blood pressure of 170/105 mm Hg

has approximately a 48% likelihood of achieving a goal of <140 mm Hg

(systolic) and 48% likelihood of achieving <90 mm Hg (diastolic)

on azilsartan medoxomil 80 mg. The likelihood of achieving these

and 40% (diastolic). These likelihoods rise to 85% (systolic) and

85% (diastolic) with Edarbyclor 40/25 mg.

doses above 40/25 mg are probably not useful.

2 DOSAGE AND ADMINISTRATION

2.1 Dosing Information

of Edarbycloi

2.2 Prior to Dosing

2.3 Handling Instructions

4 CONTRAINDICATIONS

and Precautions (5.3)].

5.1 Fetal Toxicity

Azilsartan medoxomil

5 WARNINGS AND PRECAUTIONS

3 DOSAGE FORMS AND STRENGTHS

as needed

same goals on chlorthalidone 25 mg is approximately 51% (systolic)

The recommended starting dose of Edarbyclor is 40/12.5 mg taken

within 1 to 2 weeks. The dosage may be increased to 40/25 mg after

2 to 4 weeks as needed to achieve blood pressure goals. Edarbyclor

Patients titrated to the individual components (azilsartan medoxomil

Edarbyclor may be administered with other antihypertensive agents

Correct any volume depletion prior to administration of Edarbyclor.

with high doses of diuretics [see Warnings and Precautions (5.2)].

chlorthalidone may be switched to Edarbyclor, initially with a lower

Do not repackage Edarbyclor. Dispense and store Edarbyclor in its

original container to protect Edarbyclor from light and moisture.

• 40/12.5 mg: pale red, round, biconvex, film-coated tablets,

40/25 mg: light red, round, biconvex, film-coated tablets,

in patients with diabetes [see Drug Interactions (7)].

Edarbyclor can cause fetal harm when administered to a pregnant

during the second and third trimesters of pregnancy reduces fetal

death. Resulting oligohydramnios can be associated with fetal lung

effects include skull hypoplasia, anuria, hypotension, renal failure, and

death. When pregnancy is detected, discontinue Edarbyclor as soon as

hypoplasia and skeletal deformations. Potential neonatal adverse

woman. Use of drugs that act on the renin-angiotensin system

renal function and increases fetal and neonatal morbidity and

possible [see Use in Specific Populations (8.1)].

approximately 9.7 mm in diameter, with "A/C" and "40/12.5"

approximately 9.7 mm in diameter, with "A/C" and "40/25"

imprinted on one side. Each tablet contains 40 mg of azilsartan

· Edarbyclor is contraindicated in patients with anuria [see Warnings

Do not coadminister aliskiren-containing products with Edarbyclor

imprinted on one side. Each tablet contains 40 mg of azilsartan

Edarbyclor is supplied in the following dosage strengths:

medoxomil and 12.5 mg of chlorthalidone.

medoxomil and 25 mg of chlorthalidone.

Patients who experience dose-limiting adverse reactions on

dose of chlorthalidone [see Warnings and Precautions (5.4)].

particularly in patients with impaired renal function or those treated

and chlorthalidone) may instead receive the corresponding dose

orally once daily. Most of the antihypertensive effect is apparent

# 5.2 Hypotension in Volume- or Salt-Depleted Patients

In patients with an activated renin-angiotensin system, such as volume- or salt-depleted patients (e.g., those being treated with high doses of diuretics), symptomatic hypotension may occur after initiation of treatment with Edarbyclor. Such patients are probably not good candidates to start therapy with more than one drug; therefore, correct volume prior to administration of Edarbyclor. If hypotension does occur, the patient should be placed in the supine position and, if necessary, given an intravenous infusion of normal saline. A transient hypotensive response is not a contraindication to further treatment, which usually can be continued without difficulty once the blood pressure has stabilized.

#### 5.3 Impaired Renal Function Edarbyclo

Monitor for worsening renal function in patients with renal impairment. Consider withholding or discontinuing Edarbyclor if progressive renal impairment becomes evident.

### Azilsartan medoxomil

As a consequence of inhibiting the renin-angiotensin system, changes in renal function may be anticipated in susceptible individuals treated with Edarbyclor. In patients whose renal function may depend on the activity of the renin-angiotensin system (e.g., patients with severe congestive heart failure, renal artery stenosis, or volume depletion), treatment with angiotensin-converting enzyme inhibitors and angiotensin receptor blockers has been associated with oliguria or progressive azotemia and rarely with acute renal failure and death. Similar results may be anticipated in patients treated with Edarbyclor [see Drug Interactions (7), Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)].

# Table 1. Adverse Reactions Occurring at an Incidence of $\geq\!\!2\%$ of Edarbyclor-treated Patients and

> Azilsartan medoxomil or Chlorthalidone				
Preferred Term	Azilsartan medoxomil 20, 40, 80 mg (N=470)	Chlorthalidone 12.5, 25 mg (N=316)	Edarbyclor 40 / 12.5, 40 / 25 mg (N=302)	
Dizziness	1.7%	1.9%	8.9%	
Fatigue	0.6%	1.3%	2.0%	

Hypotension and syncope were reported in 1.7% and 0.3%, respectively, of patients treated with Edarbyclor.

Study discontinuation because of adverse reactions occurred in 8.3% of patients treated with the recommended doses of Edarbyclor compared with 3.2% of patients treated with azilsartan medoxomil and 3.2% of patients treated with chlorthalidone. The most common reasons for discontinuation of therapy with Edarbyclor were serum creatinine increased (3.6%) and dizziness (2.3%)

The adverse reaction profile obtained from 52 weeks of open-label combination therapy with azilsartan medoxomil plus chlorthalidone or Edarbyclor was similar to that observed during the double-blind, active controlled trials

In 3 double-blind, active controlled, titration studies, in which Edarbyclor was titrated to higher doses in a step-wise manner, adverse reactions and discontinuations for adverse events were less frequent than in the fixed-dose factorial trial.

### Azilsartan medoxomil

Chlorthalidone

uric acid and cholesterol

Renal parameters:

A total of 4814 patients were evaluated for safety when treated with azilsartan medoxomil at doses of 20. 40 or 80 mg in clinical trials. This includes 1704 patients treated for at least 6 months, of these. 588 were treated for at least 1 year. Generally, adverse reactions were mild, not dose related and similar regardless of age, gender and race.

Adverse reactions with a plausible relationship to treatment that have been reported with an incidence of  $\geq 0.3\%$  and greater than placebo in more than 3300 patients treated with azilsartan medoxomil in controlled trials are listed below:

Musculoskeletal and Connective Tissue Disorders: muscle spasm

The following adverse reactions have been observed in clinical trials of

chlorthalidone: rash, headache, dizziness, Gl upset, and elevations of

In the factorial design trial, clinically relevant changes in standard

laboratory parameters were uncommon with administration of the

The incidence of consecutive increases of creatinine  ${\geq}50\%$ 

with azilsartan medoxomil and chlorthalidone, respectively.

Edarbyclor (5.3 mg/dL) compared with azilsartan medoxomil

(1.5 mg/dL) and with chlorthalidone (2.5 mg/dL).

from baseline and >ULN was 2.0% in patients treated with the

recommended doses of Edarbyclor compared with 0.4% and 0.3%

Mean increases in blood urea nitrogen (BUN) were observed with

The following adverse reactions have been identified during the

postmarketing use of EDARBYCLOR. Because these reactions are

possible to reliably estimate their frequency or establish a causal

Cyclooxygenase-2 Inhibitors (COX-2 Inhibitors)

on diuretic therapy), or who have compromised renal function,

co-administration of NSAIDs, including selective COX-2 inhibitors, with

angiotensin II receptor antagonists, including azilsartan, may result in

These effects are usually reversible. Monitor renal function periodically

deterioration of renal function, including possible acute renal failure.

The antihypertensive effect of Edarbyclor may be attenuated by

7.2 Dual Blockade of the Renin-Angiotensin System (RAS)

Dual blockade of the RAS with angiotensin receptor blockers. ACE

hyperkalemia, and changes in renal function (including acute renal

compared to monotherapy. In general, avoid combined use of RAS

combination of two RAS inhibitors do not obtain any additional benefit

inhibitors. Closely monitor blood pressure, renal function and electrolytes

failure) compared to monotherapy. Most patients receiving the

in patients on Edarbyclor and other agents that affect the RAS.

inhibitors, or aliskiren is associated with increased risks of hypotension

In patients who are elderly, volume-depleted (including those

in patients receiving Edarbyclor and NSAID therapy

NSAIDs, including selective COX-2 inhibitors.

reported voluntarily from a population of uncertain size, it is not always

Non-Steroidal Anti-Inflammatory Agents including Selective

Nervous System Disorders: dizziness, dizziness postural

Respiratory, Thoracic and Mediastinal Disorders: cough

#### Gastrointestinal Disorders: diarrhea, nausea General Disorders and Administration Site Conditions: asthenia, fatigue

Clinical Laboratory Findings with Edarbyclor

recommended doses of Edarbyclor.

6.2 Postmarketing Experience

relationship to drug exposure.

Angioedema

DRUG INTERACTIONS

Pruritus

٠

7

7.1

Loss of consciousness

Control of high blood pressure should be part of comprehensive cardiovascular risk management, including, as appropriate, lipid control, diabetes management, antithrombotic therapy, smoking cessation, exercise, and limited sodium intake. Many patients will require more than one drug to achieve blood pressure goals. For specific advice on goals and management of high blood pressure, see published guidelines. such as those of the National High Blood Pressure Education Program's Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC).

Numerous antihypertensive drugs, from a variety of pharmacologic classes and with different mechanisms of action, have been shown in randomized controlled trials to reduce cardiovascular morbidity and mortality, and it can be concluded that it is blood pressure reduction, and not some other pharmacologic property of the drugs, that is largely responsible for those benefits. The largest and most consistent cardiovascular outcome benefit has been a reduction in the risk of stroke, but reductions in myocardial infarction and cardiovascular mortality also have been seen regularly.

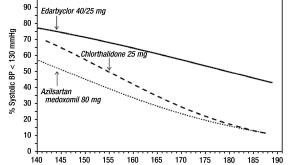
Elevated systolic or diastolic pressure causes increased cardiovascular risk, and the absolute risk increase per mmHg is greater at higher blood pressures, so that even modest reductions of severe hypertension can provide substantial benefit. Relative risk reduction from blood pressure reduction is similar across populations with varving absolute risk, so the absolute benefit is greater in patients who are at higher risk independent of their hypertension (for example. patients with diabetes or hyperlipidemia), and such patients would be expected to benefit from more aggressive treatment to a lower blood pressure goal.

Some antihypertensive drugs have smaller blood pressure effects (as monotherapy) in black patients; however, the blood pressure effect of Edarbyclor in blacks is similar to that in non-blacks. Many antihypertensive drugs have additional approved indications and effects (e.g., on angina, heart failure, or diabetic kidney disease). These considerations may guide selection of therapy.

The choice of Edarbyclor as initial therapy for hypertension should be based on an assessment of potential benefits and risks including whether the patient is likely to tolerate the starting dose of Edarbyclor.

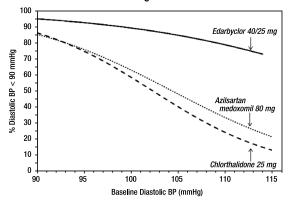
Patients with moderate-to-severe hypertension are at a relatively high risk of cardiovascular events (e.g., stroke, heart attack, and heart failure), kidney failure, and vision problems, so prompt treatment is clinically relevant. Consider the patient's baseline blood pressure. target goal and the incremental likelihood of achieving the goal with a combination product, such as Edarbyclor, versus a monotherapy product when deciding upon initial therapy. Individual blood pressure goals may vary based on the patient's risk.

Data from an 8-week, active-controlled, factorial trial provide estimates of the probability of reaching a target blood pressure with Edarbyclor compared with azilsartan medoxomil or chlorthalidone monotherapy [see Clinical Studies (14)].

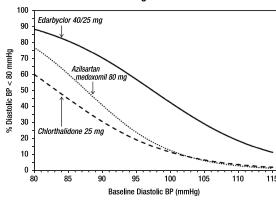


Baseline Systolic BP (mmHq)

#### Figure 1.c Probability of Achieving Diastolic Blood Pressure <90 mmHg at Week 8



#### Figure 1.d Probability of Achieving Diastolic Blood Pressure <80 mmHg at Week 8



In studies of ACE inhibitors in patients with unilateral or bilateral renal artery stenosis, increases in serum creatinine or blood urea nitrogen have been reported. There has been no long-term use of azilsartan medoxomil in patients with unilateral or bilateral renal artery stenosis, but similar results are expected.

### Chlorthalidone

In patients with renal disease, chlorthalidone may precipitate azotemia. If progressive renal impairment becomes evident, as indicated by increased blood urea nitrogen, consider withholding or discontinuing diuretic therapy.

# 5.4 Serum Electrolyte Imbalances

Thiazide diuretics can cause hyponatremia and hypokalemia. Drugs that inhibit the renin angiotensin system can cause hyperkalemia. Hypokalemia is a dose-dependent adverse reaction that may develop with chlorthalidone. Co-administration of digitalis may exacerbate the adverse effects of hypokalemia. Monitor serum electrolytes periodically.

Edarbyclor attenuates chlorthalidone-associated hypokalemia. In patients with normal potassium levels at baseline, 1.7% of Edarbyclor-treated patients. 0.9% of azilsartan medoxomil-treated patients, and 13.4% of chlorthalidone-treated patients shifted to low potassium values (less than 3.4 mmol/L).

# 5.5 Hyperuricemia

Chlorthalidone

6

Hyperuricemia may occur or frank gout may be precipitated in certain patients receiving chlorthalidone or other thiazide diuretics.

# ADVERSE REACTIONS

The following potential adverse reactions with Edarbyclor, azilsartan medoxomil, or chlorthalidone and similar agents are included in more detail in the Warnings and Precautions section of the label:

- Fetal toxicity [see Warnings and Precautions (5.1)]
- Hypotension in Volume- or Salt-Depleted Patients [see Warnings] and Precautions (5.2)]
- Impaired Renal Function [see Warnings and Precautions (5.3)]
- Hypokalemia [see Warnings and Precautions (5.4)]
- Hyperuricemia [see Warnings and Precautions (5.5)]

# 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Edarbyclor has been evaluated for safety in more than 3900 patients with hypertension; more than 700 patients were treated for at least 6 months and more than 280 for at least 1 year. Adverse reactions have generally been mild and transient in nature.

Common adverse reactions that occurred in the 8-week factorial design trial in at least 2% of Edarbyclor-treated patients and greater than azilsartan medoxomil or chlorthalidone are presented in Table 1.

Do not coadminister aliskiren with Edarbyclor in patients with diabetes. Avoid use of aliskiren with Edarbyclor in patients with renal impairment (GFR <60 mL/min).

# 7.3 Lithium

Increases in serum lithium concentrations and lithium toxicity have been reported during concomitant administration of lithium with angiotensin II receptor agonists. Lithium renal clearance is reduced by diuretics, such as chlorthalidone. Monitor serum lithium levels during concomitant use.

# USE IN SPECIFIC POPULATIONS

# 8.1 Pregnancy

Risk Summary

Edarbyclor can cause fetal harm when administered to a pregnant woman. Use of drugs that act on the renin-angiotensin system during the second and third trimesters of pregnancy reduces fetal renal function and increases fetal and neonatal morbidity and death (see Clinical Considerations). Most epidemiologic studies examining fetal abnormalities after exposure to antihypertensive use in the first trimester have not distinguished drugs affecting the regin-angiotensin system from other antihypertensive agents

When pregnancy is detected, discontinue Edarbyclor as soon as possible

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

# **Clinical Considerations**

Disease-associated maternal and/or embryo/fetal risk Hypertension in pregnancy increases the maternal risk for pre-eclampsia, gestational diabetes, premature delivery, and delivery complications (e.g., need for cesarean section, and post-partum hemorrhage). Hypertension increases the fetal risk for intrauterine growth restriction and intrauterine death. Pregnant women with hypertension should be carefully monitored and managed accordingly.

# Fetal/Neonatal adverse reactions

Oligohydramnios in pregnant women who use drugs affecting the renin-angiotensin system in the second and third trimesters can result in the following: reduced fetal renal function leading to anuria and renal failure, fetal lung hypoplasia, skeletal deformations, including skull hypoplasia, hypotension and death.

Perform serial ultrasound examinations to assess the intra-amniotic environment. Fetal testing may be appropriate, based on the week of pregnancy. Patients and physicians should be aware, however, that oligohydramnios may not appear until after the fetus has sustained irreversible iniury.

Closely observe infants with histories of *in utero* exposure to Edarbyclor for hypotension, oliguria, and hyperkalemia. In neonates with a history of *in utero* exposure to Edarbyclor, if oliguria or

320 mg of azilsartan medoxomil were administered for 7 days and were well tolerated. In the event of an overdose, supportive therapy should be instituted as dictated by the patient's clinical status. Azilsartan is not dialyzable.

Limited data are available related to overdosage in humans. During

controlled clinical trials in healthy subjects, once daily doses up to

hypotension occurs, support blood pressure and renal perfusion.

Exchange transfusions or dialysis may be required as a means of

Chlorthalidone

<u>Data</u>

Animal Data

Edarbyclor

reversing hypotension and/or substituting for disordered renal function.

Thiazides cross the placenta, and use of thiazides during pregnancy is

associated with a risk of fetal or neonatal jaundice. thrombocytopenia.

and possible other adverse reactions that have occurred in adults.

The safety profiles of azilsartan medoxomil and chlorthalidone

monotherapy have been individually established. To characterize the

toxicological profile for Edarbyclor, a 13-week repeat-dose toxicity

study was conducted in rats. The results of this study indicated that

Pharmacologically-mediated toxicity, including suppression of body

the combined administration of azilsartan medoxomil, M-II, and

chlorthalidone resulted in increased exposures to chlorthalidone.

weight gain and decreased food consumption in male rats, and

increases in blood urea nitrogen in both sexes, was enhanced by

coadministration of azilsartan medoxomil, M-II, and chlorthalidone.

With the exception of these findings, there were no toxicologically

In an embryo-fetal developmental study in rats, there was no

teratogenicity or increase in fetal mortality in the litters of dams

Reproductive Toxicology: In peri- and postnatal rat development

studies, adverse effects on pup viability, delayed incisor eruption and

when azilsartan medoxomil was administered to pregnant and nursing

studies indicated that azilsartan medoxomil was not teratogenic when

administered at oral doses up to 1000 mg azilsartan medoxomil/kg/day

rats at 1.2 times the MRHD on a mg/m<sup>2</sup> basis. Reproductive toxicity

to pregnant rats (122 times the MRHD on a mg/m<sup>2</sup> basis) or up to

50 mg azilsartan medoxomil/kg/day to pregnant rabbits (12 times

the MRHD on a mg/m<sup>2</sup> basis). M-II also was not teratogenic in rats

or rabbits at doses up to 3000 mg M-II/kg/day. Azilsartan crossed

excreted into the milk of lactating rats.

placental barrier and appear in cord blood.

18 years of age have not been established.

the placenta and was found in the fetuses of pregnant rats and was

Reproductive toxicology: Reproduction studies have been performed

have revealed no evidence of harm to the fetus. Thiazides cross the

There is limited information regarding the presence of azilsartan in

human milk, the effects on the breastfed infant, or the effects on milk

production. Azilsartan is present in rat milk. Thiazide-like diuretics like

for adverse effects on the nursing infant, advise a nursing woman that

breastfeeding is not recommended during treatment with Edarbyclor.

Safety and effectiveness of Edarbyclor in pediatric patients under

No dose adjustment with Edarbyclor is necessary in elderly

patients. Of the total patients in clinical studies with Edarbyclor.

24% were elderly (65 years of age or older); 5.7% were 75 years

and older. No overall differences in safety or effectiveness were

observed between elderly patients and younger patients, but greater

sensitivity of some older individuals cannot be ruled out [see Clinical

Safety and effectiveness of Edarbyclor in patients with severe renal

impairment (eGFR <30 mL/min/1.73 m<sup>2</sup>) have not been established.

60-90 mL/min/1.73 m<sup>2</sup>) or moderate (eGFR 30-60 mL/min/1.73 m<sup>2</sup>)

No dose adjustment is required in patients with mild (eGFR

No dose adjustment is necessary for subjects with mild or

moderate hepatic impairment. Azilsartan medoxomil has not been

studied in patients with severe hepatic impairment *[see Clinical* 

Minor alterations of fluid and electrolyte balance may precipitate

Limited data are available related to overdosage in humans.

hepatic coma in patients with impaired hepatic function or progressive

Chlorthalidone may precipitate azotemia.

chlorthalidone are excreted in human milk. Because of the potential

in the rat and the rabbit at doses up to 420 times the human dose and

dilatation of the renal pelvis along with hydronephrosis were seen

receiving azilsartan medoxomil, M-II and chlorthalidone concomitantly

synergistic effects in this study.

at maternally toxic doses.

Azilsartan medoxomil

Chlorthalidone

8.2 Lactation

Risk Summary

8.4 Pediatric Use

8.5 Geriatric Use

Pharmacology (12.3)].

8.6 Renal Impairment

8.7 Hepatic Impairment

Azilsartan medoxomil

Pharmacology (12.3)].

10 OVERDOSAGE

Azilsartan medoxomil

Chlorthalidone

liver disease.

Edarbyclor

Edarbvclor

renal impairment

Chlorthalidone

### Chlorthalidone

Symptoms of acute overdosage include nausea, weakness, dizziness, and disturbances of electrolyte balance. The oral LD50 of the drug in the mouse and the rat is more than 25,000 mg/kg body weight. The minimum lethal dose (MLD) in humans has not been established. There is no specific antidote, but gastric lavage is recommended, followed by supportive treatment. Where necessary, this may include intravenous dextrose-saline with potassium, administered with caution.

# 11 DESCRIPTION

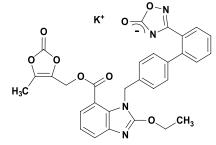
Edarbyclor is a combination of azilsartan medoxomil (angiotensin II receptor blocker; as its potassium salt) and chlorthalidone (thiazide-like diuretic).

Azilsartan medoxomil, a prodrug, is hydrolyzed to azilsartan in the gastrointestinal tract during absorption. Azilsartan is an angiotensin II receptor blocker. Chlorthalidone is a monosulfamyl thiazide-like diuretic that differs chemically from thiazide diuretics by the lack of a benzothiadiazine structure.

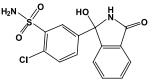
The potassium salt of azilsartan medoxomil, azilsartan kamedoxomil, is chemically described as (5-Methyl-2-oxo-1,3-dioxol-4-yl) methyl 2-ethoxy-1-{[2'-(5-oxo-4.5-dihydro-1.2.4-oxadiazol-3-v]) biphenyl-4-yl]methyl}-1H-benzimidazole-7-carboxylate monopotassium salt. Its empirical formula is C<sub>30</sub>H<sub>23</sub>KN<sub>4</sub>O<sub>8</sub>.

Chlorthalidone is chemically described as 2-chloro-5(1-hydroxy-3-oxo-1- isoindolinyl) benzenesulfonamide. Its empirical formula is C14H11CIN204S.

The structural formula for azilsartan medoxomil is



The structural formula for chlorthalidone is



Azilsartan kamedoxomil is a white to nearly white powder with a molecular weight of 606.62. It is practically insoluble in water and freely soluble in methanol.

Chlorthalidone is a white to yellowish white powder with a molecular weight of 338.76. Chlorthalidone is practically insoluble in water, in ether, and in chloroform; soluble in methanol; slightly soluble in ethanol.

Edarbyclor is available for oral use as tablets. The tablets have a characteristic odor. Each Edarbyclor tablet contains 42.68 mg of azilsartan kamedoxomil, which is equivalent to containing azilsartan medoxomil 40 mg plus 12.5 or 25 mg of chlorthalidone. Each tablet of Edarbyclor also contains the following inactive ingredients: mannitol, microcrystalline cellulose, fumaric acid, sodium hydroxide, hydroxypropyl cellulose, crospovidone, magnesium stearate, hypromellose 2910, talc, titanium dioxide, ferric oxide red, polyethylene glycol 8000, and printing ink gray F1.

# 12 CLINICAL PHARMACOLOGY

# 12.1 Mechanism of Action

The active ingredients of Edarbyclor target two separate mechanisms involved in blood pressure regulation.

# Azilsartan medoxomil

Angiotensin II is formed from angiotensin I in a reaction catalyzed by angiotensin-converting enzymes (ACE, kinase II). Angiotensin II is the principle pressor agent of the renin-angiotensin system, with effects that include vasoconstriction, stimulation of synthesis and release of aldosterone, cardiac stimulation, and renal reabsorption of sodium. Azilsartan medoxomil is an orally administered prodrug that is rapidly converted by esterases during absorption to the active moiety, azilsartan. Azilsartan blocks the vasoconstrictor and aldosterone-secreting effects of angiotensin II by selectively blocking the binding of angiotensin II to the  $AT_1$  receptor in many tissues, such as vascular smooth muscle and the adrenal gland. Its action is, therefore, independent of the pathway for angiotensin II synthesis.

An AT<sub>2</sub> receptor is also found in many tissues, but this receptor is not known to be associated with cardiovascular homeostasis. Azilsartan has more than a 10,000-fold greater affinity for the AT<sub>1</sub> receptor than for the AT<sub>2</sub> receptor.

Blockade of the renin-angiotensin system with ACE inhibitors, which inhibit the biosynthesis of angiotensin II from angiotensin I, is widely used in the treatment of hypertension. ACE inhibitors also inhibit the degradation of bradykinin, a reaction catalyzed by ACE. Because azilsartan does not inhibit ACE (kinase II), it should not affect bradykinin levels. Whether this difference has clinical relevance is not yet known. Azilsartan does not bind to or block other receptors or ion channels known to be important in cardiovascular regulation.

Blockade of the angiotensin II receptor inhibits the negative regulatory feedback of angiotensin II on renin secretion, but the resulting increased plasma renin activity and angiotensin II circulating levels do not overcome the effect of azilsartan on blood pressure.

# Chlorthalidone

Chlorthalidone produces diuresis with increased excretion of sodium and chloride. The site of action appears to be the distal renal tubule (early convoluted part), inhibiting NaCl reabsorption (by antagonizing the Na+-Cl-cotransporter) and promoting Ca++ reabsorption (by an unknown mechanism). The enhanced delivery of Na+ and water to the cortical collecting tubule and/or the increased flow rate leads to increased secretion and elimination of K+ and H+. The diuretic effects of chlorthalildone lead to decreased extracellular fluid volume, plasma volume, cardiac output, total exchangeable sodium, glomerular filtration rate, and renal plasma flow. Although the mechanism of action of chlorthalidone and related drugs is not wholly clear, sodium and water depletion appear to provide a basis for its antihypertensive effect.

# 12.2 Pharmacodynamics

# Edarbyclor

Edarbyclor tablets have been shown to be effective in lowering blood pressure. Both azilsartan medoxomil and chlorthalidone lower blood pressure by reducing peripheral resistance but through complementary mechanisms.

# Azilsartan medoxomil

Azilsartan inhibits the pressor effects of an angiotensin II infusion in a dose-related manner. An azilsartan single dose equivalent to 32 mg azilsartan medoxomil inhibited the maximal pressor effect by approximately 90% at peak, and approximately 60% at 24 hours. Plasma angiotensin I and II concentrations and plasma renin activity increased while plasma aldosterone concentrations decreased after single and repeated administration of azilsartan medoxomil to healthy subjects; no clinically significant effects on serum potassium or sodium were observed.

# Chlorthalidone

The diuretic effect of chlorthalidone occurs in approximately 2.6 hours and continues for up to 72 hours.

# 12.3 Pharmacokinetics

*Edarbyclor* Following oral administration of Edarbyclor, peak plasma concentrations of azilsartan and chlorthalidone are reached at 3 and 1 hours, respectively. The rate ( $C_{max}$  and  $T_{max}$ ) and extent (AUC) of absorption of azilsartan are similar when it is administered alone or with chlorthalidone. The extent (AUC) of absorption of chlorthalidone is similar when it is administered alone or with azilsartan Following an oral dose of <sup>14</sup>C-labeled azilsartan medoxomil, approximately 55% of radioactivity was recovered in feces and approximately 42% in urine, with 15% of the dose excreted in urine as azilsartan. The elimination half-life of azilsartan is approximately 11 hours and renal clearance is approximately 2.3 mL/min. Steady-state levels of azilsartan are achieved within 5 days and no

accumulation in plasma occurs with repeated once-daily dosing. *Chlorthalidone*: Chlorthalidone when administered alone or in combination with azilsartan medoxomil is eliminated from plasma with an elimination half-life of 42-45 hours. The elimination half-life is unaltered following repeat dosing. The majority of an absorbed quantity of chlorthalidone is excreted by the kidneys with a mean renal clearance of 46-70 mL/min. By contrast, metabolism and excretion via the liver and bile play a minor role in the elimination of the substance. Approximately 60%-70% of chlorthalidone is excreted in the urine and feces within 120 hours, mainly in unchanged form.

# Specific Populations

Azilsartan medoxomil: The effect of demographic and functional factors on the pharmacokinetics of azilsartan was studied in single and multiple dose studies. Pharmacokinetic measures indicating the magnitude of the effect on azilsartan are presented in Figure 2 as change relative to reference (test/reference).

# Figure 2. Impact of intrinsic factors on the

	Jilarii	acokinetics of azilsartan	
Population Description	PK.	Fold Change and 90% CI	Recommendati
AGE			
>65y/18-45y	Cmax AUC	<b>↓●● ↓</b>	No dose adjustme
GENDER			
Females/Males	Cmax AUC		No dose adjustme
RACE			
Whites/Blacks	Cmax AUC		No dose adjustme
RENAL IMPAIRMENT			
Mild/Normal	Cmax AUC		No dose adjustme
Moderate/Normal	Cmax AUC		No dose adjustme
Severe/Normal	Cmax AUC		No dose adjustme
ESRD/Normal	Cmax AUC		No dose adjustme
HEPATIC IMPAIRMENT			
Mild/Normal	Cmax AUC		No dose adjustme
Moderate/Normal	Cmax AUC	<b>⊢●</b>	No dose adjustme
Severe/Normal			NO EXPERIENCE
PEDIATRIC			NO EXPERIENCE
		0.5 1.0 1.5 2.0 2.5	٦ 3.0
		Change relative to reference	

# Drug Interactions

Azilsartan medoxomil No clinically significant drug interactions have been observed in studies of azilsartan medoxomil or azilsartan given with amlodipine, antacids, chlorthalidone, digoxin, fluconazole, glyburide, ketoconazole, metformin, pioglitazone, and warfarin. Therefore, azilsartan medoxomil may be used concomitantly with these medications.

### 13 NONCLINICAL TOXICOLOGY

**13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility** No carcinogenicity, mutagenicity, or fertility studies have been conducted with the combination of azilsartan medoxomil and chlorthalidone or with chlorthalidone alone. However, these studies have been conducted for azilsartan medoxomil, azilsartan and M-II.

### Azilsartan medoxomil

*Carcinogenesis:* Azilsartan medoxomil was not carcinogenic when assessed in 26-week transgenic (Tg.rasH2) mouse and 2-year rat studies. The highest doses tested (450 mg azilsartan medoxomil/kg/day in the mouse and 600 mg azilsartan medoxomil/kg/day in the rat) produced exposures to azilsartan that are 12 (mice) and 27 (rats) times the average exposure to azilsartan in humans given the maximum recommended human dose (MRHD, 80 mg azilsartan medoxomil/day). M-II was not carcinogenic when assessed in 26-week Tg.rasH2 mouse and 2-year rat studies. The highest doses tested (approximately 8000 mg M-II/kg/day (males) and 11,000 mg M-II/kg/day (females) in the mouse and 1000 mg M-II/kg/day (males) and up to 3000 mg M-II/kg/day (females) in the rat) produced exposures that are, on average, about 30 (mice) and 7 (rats) times the average exposure to M-II in humans at the MRHD.

*Mutagenesis:* Chlorthalidone demonstrated no potential for mutagenic effects at non-cytotoxic concentrations and is considered not to pose a mutagenic risk to humans.

Azilsartan medoxomil, azilsartan, and M-II were positive for structural aberrations in the Chinese Hamster Lung Cytogenic Assay. In this assay, structural chromosomal aberrations were observed with the prodrug, azilsartan medoxomil, without metabolic activation. The active moiety, azilsartan, was also positive in this assay both with and without metabolic activation. The major human metabolite, M-II was also positive in this assay without metabolic activation.

Azilsartan medoxomil, azilsartan, and M-II were devoid of genotoxic potential in the Ames reverse mutation assay with *Salmonella typhimurium* and *Escherichia coli*, the *in vitro* Chinese Hamster Ovary Cell forward mutation assay, the *in vitro* mouse lymphoma (tk) gene mutation test, the *ex vivo* unscheduled DNA synthesis test, and the *in vivo* mouse and/or rat bone marrow micronucleus assay.

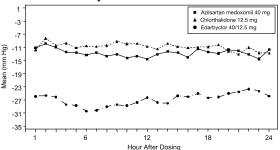
*Impairment of Fertility:* Chlorthalidone at a dosage of 100 mg/kg had no effect on fertility in rats.

There was no effect of azilsartan medoxomil on the fertility of male or

#### Table 3. Mean Change from Baseline in Clinic Systolic/Diastolic Blood Pressure (mm Hg) at Week 8: Combination Therapy vs Monotherapy

Chlorthalidone, mg	Azilsartan Medoxomil, mg		9	
	0	20	40	80
0	N/A	-20 / -7	-23 / -9	-24 / -10
12.5	-21 / -7	-34 / -14	-37 / -16	-37 / -17
25	-27 / -9	-37 / -16	-40 / -17	-40 / -19

Figure 3. Mean Change from Baseline at Week 8 in Ambulatory Systolic Blood Pressure (mm Hg) by Treatment and Hour



Edarbyclor was effective in reducing blood pressure regardless of age, gender, or race.

Edarbyclor was effective in treating black patients (usually a low-renin population).

In a 12-week, double-blind forced-titration trial, Edarbyclor 40/25 mg was statistically superior (P<0.001) to olmesartan medoxomil – hydrochlorothiazide (OLM/HCTZ) 40/25 mg in reducing systolic blood

pressure in patients with moderate to severe hypertension (Table 4). Similar results were observed in all subgroups, including age, gender, or race of patients.

# Table 4. Mean Change in Systolic/Diastolic Blood Pressure (mm Hg) at Week 12

(				
	Edarbyclor 40/25 mg N=355	OLM/HCTZ 40/25 mg N=364		
Clinic (Mean Baseline 165/96 mm Hg)	-43 / -19	-37 / -16		
Trough by ABPM (22-24 hours) (Mean Baseline 153/92 mm Hg)	-33 / -20	-26 / -16		

Edarbyclor lowered blood pressure more effectively than OLM/HCTZ at each hour of the 24-hour interdosing period as measured by ABPM.

# Cardiovascular Outcomes

There are no trials of Edarbyclor demonstrating reductions in cardiovascular risk in patients with hypertension; however, trials with chlorthalidone and at least one drug pharmacologically similar to azilsartan medoxomil have demonstrated such benefits.

# 16 HOW SUPPLIED/STORAGE AND HANDLING

Edarbyclor is supplied as fixed dose combination tablets that are round, biconvex, film-coated, and 9.7 mm in diameter.

Strength	Color	Imprinting	NDC Number 60631-xxx-xx	
			Bottle of 30	
40 / 12.5 mg	Pale red	A/C 40/12.5	412-30	
40 / 25 mg	Light red	A/C 40/25	425-30	

Store at 25°C (77°F), excursions permitted to 15°-30°C (59°-86°F) [see USP Controlled Room Temperature]. Keep container tightly closed. Protect from moisture and light. Do not repackage; dispense and store in original container.

# 17 PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Patient Information)

Tell patients that if they miss a dose, they should take it later in the same day, but not to double the dose on the following day. *Preanancy* 

Tell female patients of childbearing potential about the consequences of exposure to Edarbyclor during pregnancy. Discuss treatment options with women planning to become pregnant. Tell patients to report pregnancies to their physicians as soon as possible.

# Symptomatic Hypotension

Advise patients to report light-headedness. Advise patients, if syncope occurs, to have someone call the doctor or seek medical attention, and to discontinue Edarbyclor.

Inform patients that dehydration from excessive perspiration, vomiting, or diarrhea may lead to an excessive fall in blood pressure. Inform patients to consult with their healthcare provider if these symptoms occur.

#### Patient Information EDARBYCLOR (eh-DAR-bih-clor) (azilsartan medoxomil and chlorthalidone) tablets

Read this Patient Information leaflet before you start taking Edarbyclor and each time you get a refill. There may be new information. This information does not take the place of talking to your doctor about your medical condition or your treatment.

# What is the most important information I should know about Edarbyclor?

- Edarbyclor can cause harm or death to your unborn baby.
- Talk to your doctor about other ways to lower your blood pressure if you plan to become pregnant.
- If you become pregnant while taking Edarbyclor, tell your doctor right away. Your doctor may switch you to a different
  medicine to treat your high blood pressure.

# What Is Edarbyclor?

Edarbyclor is a prescription medicine that contains azilsartan medoxomil, an angiotensin receptor blocker (ARB) and chlorthalidone, a water pill (diuretic).

Edarbyclor is used to treat high blood pressure (hypertension):

- when one medicine to lower your high blood pressure is not enough
- as the first medicine to lower your high blood pressure if your doctor decides you are likely to need more than one medicine.
- It is not known if Edarbyclor is safe and effective in children under 18 years of age.

# Who should not take Edarbyclor?

- Do not take Edarbyclor if you:
- make less urine because of kidney problems

#### What should I tell my doctor before taking Edarbyclor? Before you take Edarbyclor, tell your doctor if you:

- have been told that you have abnormal body salt (electrolytes) levels in your blood
- have liver or kidney problems
- have heart problems or stroke
- are vomiting or have diarrhea
- have gout
- are pregnant or plan to become pregnant. See "What is the most important information I should know about Edarbyclor?"
- are breastfeeding or plan to breastfeed. It is not known if Edarbyclor passes into your breast milk. You and your doctor should decide if you will take Edarbyclor or breastfeed. You should not do both. Talk with your doctor about the best way to feed your baby if you take Edarbyclor.

# Tell your doctor about all the medicines you take, including prescription and nonprescription medicines, vitamins, and herbal supplements.

# Especially tell your doctor if you take:

- other medicines used to treat your high blood pressure or heart problem
- water pills (diuretics)
- lithium carbonate (Lithobid), lithium citrate
- digoxin (Lanoxin)

# Ask your doctor if you are not sure if you are taking a medicine listed above.

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

# How should I take Edarbyclor?

• take water pills (diuretics)

do not drink enough fluids

get sick with vomiting or diarrhea

or get medical help. Stop taking Edarbyclor.

failure and in rare instances, death.

lack of energy (lethargic)

The most common side effects of Edarbyclor are:

are on a low-salt diet

sweat a lot

dry mouth

weakness

drowsiness

thirst

- Take Edarbyclor exactly as your doctor tells you to.
- Your doctor will tell you how much Edarbyclor to take and when to take it.

See "What is the most important information I should know about Edarbyclor?"

Low blood pressure (hypotension) and dizziness is most likely to happen if you also:

advice. See "What are the possible side effects of Edarbyclor?"

• Your doctor may prescribe other medicines for you to take along with Edarbyclor to treat your high blood pressure.

If you take too much Edarbyclor and have symptoms of low blood pressure (hypotension) and dizziness, call your doctor for

If you feel faint or dizzy, lie down and call your doctor right away. If you pass out (faint) have someone call your doctor

changes in blood tests for kidney function and may need a lower dose of Edarbyclor or may need to stop treatment with

Edarbyclor. During treatment with Edarbyclor, certain people who have severe heart failure, narrowing of the artery to the

kidney, or who lose too much body fluid such as with nausea, vomiting, bleeding, or trauma, may develop sudden kidney

• passing very little urine or passing

large amounts of urine

• fast or abnormal heartbeat

nausea and vomiting

constipation

• Kidney problems. Kidney problems may become worse in people that already have kidney disease. Some people have

• muscle pain or cramps

muscle tiredness (fatigue)

Increased uric acid levels in the blood. People who have increased levels of uric acid in the blood may develop gout.

These are not all the possible side effects with Edarbyclor. Tell your doctor if you have any side effect that bothers you or that

• Edarbyclor can be taken with or without food.

What are the possible side effects of Edarbyclor?

Edarbyclor may cause serious side effects, including:

take other medicines that affect your blood pressure

• If you miss a dose, take it later in the same day. Do not take more than 1 dose of Edarbyclor in a day.

medoxomil; however, the  $C_{\mbox{\scriptsize max}}$  of chlorthalidone from Edarbyclor was 45-47% higher.

There is no clinically significant effect of food on the bioavailability of azilsartan or chlorthalidone following administration of Edarbyclor.

# Azilsartan medoxomil

Absorption: Azilsartan medoxomil is an orally administered prodrug that is rapidly converted by esterases during absorption to the active moiety, azilsartan. Azilsartan medoxomil is not detected in plasma after oral administration. Dose proportionality in exposure was established for azilsartan in the azilsartan medoxomil dose range of 20 mg to 320 mg after single or multiple dosing.

The estimated absolute bioavailability of azilsartan following administration of azilsartan medoxomil is approximately 60%. After oral administration of azilsartan medoxomil, peak plasma concentrations ( $C_{max}$ ) of azilsartan are reached within 1.5 to 3 hours. Food does not affect the bioavailability of azilsartan.

# Distribution

Azilsartan medoxomil: The volume of distribution of azilsartan is approximately 16L. Azilsartan is highly bound to human plasma proteins (>99%), mainly serum albumin. Protein binding is constant at azilsartan plasma concentrations well above the range achieved with recommended doses.

In rats, minimal azilsartan-associated radioactivity crossed the bloodbrain barrier. Azilsartan passed across the placental barrier in pregnant rats and was distributed to the fetus.

*Chlorthalidone:* In whole blood, chlorthalidone is predominantly bound to erythrocyte carbonic anhydrase. In the plasma, approximately 75% of chlorthalidone is bound to plasma proteins, 58% of the drug being bound to albumin. Chlorthalidone crosses the placental barrier and passes into breast milk. When mothers were treated before and after birth with 50 mg chlorthalidone daily, chlorthalidone levels in fetal whole blood were around 15% of those found in maternal blood. Chlorthalidone concentrations in amniotic fluid and breast milk are approximately 4% of those found in maternal blood.

### Metabolism and Elimination

Azilsartan medoxomil: Azilsartan medoxomil, when administered alone or in combination with chlorthalidone is eliminated from plasma with an elimination half-life of 11-13 hours. Azilsartan is metabolized to two primary metabolites. The major metabolite in plasma is formed by *O*-dealkylation, referred to as metabolite M-II, and the minor metabolite is formed by decarboxylation, referred to as metabolite M-I. Systemic exposures to the major and minor metabolites in humans were approximately 50% and less than 1% of azilsartan, respectively. M-I and M-II do not contribute to the pharmacologic activity of azilsartan medoxomil. The major enzyme responsible for azilsartan metabolism is CYP2C9. female rats at oral doses of up to 1000 mg azilsartan medoxomil/kg/day [6000 mg/m² (approximately 122 times the MRHD of 80 mg azilsartan medoxomil/60 kg on a mg/m² basis)]. Fertility of rats also was unaffected at doses of up to 3000 mg M-II/kg/day.

# 14 CLINICAL STUDIES

The antihypertensive effects of Edarbyclor have been demonstrated in a total of 5 randomized controlled studies, which included 4 double-blind, active-controlled studies and 1 open-label, long-term active-controlled study. The studies ranged from 8 weeks to 12 months in duration, at doses ranging from 20/12.5 mg to 80/25 mg once daily. A total of 5310 patients (3082 given Edarbyclor and 2228 given active comparator) with moderate or severe hypertension were studied. Overall, randomized patients had a mean age of 57 years, and included 52% males, 72% whites, 21% blacks, 15% with diabetes, 70% with mild or moderate renal impairment, and a mean BMI of 31.6 kg/m<sup>2</sup>.

An 8-week, multicenter, randomized, double-blind, active-controlled, parallel group factorial trial in patients with moderate to severe hypertension compared the effect on blood pressure of Edarbyclor with the respective monotherapies. The trial randomized 1714 patients with baseline systolic blood pressure between 160 and 190 mm Hg (mean 165 mm Hg) and a baseline diastolic blood pressure <119 mm Hg (mean 95 mm Hg) to one of the 11 active treatment arms.

The 6 treatment combinations of azilsartan medoxomil 20, 40, or 80 mg and chlorthalidone 12.5 or 25 mg resulted in statistically significant reduction in systolic and diastolic blood pressure as determined by ambulatory blood pressure monitoring (ABPM) (Table 2) and clinic measurement (Table 3) at trough compared with the respective individual monotherapies. The clinic blood pressure reductions appear larger than those observed with ABPM, because the former include a placebo effect, which was not directly measured. Most of the antihypertensive effect of Edarbyclor occurs within 1-2 weeks of dosing. The blood pressure lowering effect was maintained throughout the 24-hour period (Figure 3).

#### Table 2. Mean Change from Baseline in Systolic/Diastolic Blood Pressure (mm Hg) as Measured by ABPM at Trough (22-24 Hours Post-Dose) at Week 8: Combination Therapy vs Monotherapy

Chlorthalidone, mg	Azilsartan Medoxomil, mg			
	0	20	40	80
0	N/A	-12 / -8	-13 / -7	-15 / -9
12.5	-13 / -7	-23 / -13	-24 / -14	-26 / -17
25	-16 / -8	-26 / -15	-30 / -17	-28 / -16

#### does not go away.

dizziness, and

tiredness

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

Fluid and body salt (electrolyte) problems. Tell your doctor if you get any of the following symptoms:

confusion

seizures

restlessness

# How should I store Edarbyclor?

• Store Edarbyclor at room temperature between 68°F to 77°F (20°C to 25°C).

If you already have gout, tell your doctor about worsening of your gout symptoms.

- Store Edarbyclor in the original container that you received from your pharmacist or doctor. Do not put Edarbyclor into a different container.
- · Keep the container closed tightly, and keep Edarbyclor out of the light.

# Keep Edarbyclor and all medicines out of the reach of children.

# General information about Edarbyclor

Medicines are sometimes prescribed for purposes other than those listed in the Patient Information leaflet. Do not use Edarbyclor for a condition for which it was not prescribed. Do not give Edarbyclor to other people, even if they have the same symptoms you have. It may harm them.

This Patient Information leaflet summarizes the most important information about Edarbyclor. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about Edarbyclor that is written for health professionals.

For more information, go to www.edarbyclor.com or call 1-866-516-4950.

# What is high blood pressure (hypertension)?

Blood pressure is the force in your blood vessels when your heart beats and when your heart rests. You have high blood pressure when the force is too great.

High blood pressure makes the heart work harder to pump blood through the body and causes damage to the blood vessels. Edarbyclor tablets can help your blood vessels relax so your blood pressure is lower. Medicines that lower your blood pressure may lower your chance of having a stroke or heart attack.

# What are the ingredients in Edarbyclor?

Active ingredients: azilsartan medoxomil and chlorthalidone

*Inactive* ingredients: mannitol, microcrystalline cellulose, fumaric acid, sodium hydroxide, hydroxypropyl cellulose, crospovidone, magnesium stearate, hypromellose 2910, talc, titanium dioxide, ferric oxide red, polyethylene glycol 8000, and printing ink gray F1.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Manufactured by:



Ireland Manufactured for:



Atlanta, GA 30328

Revised: MARCH 2020

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