

PRODUCT MONOGRAPH  
INCLUDING PATIENT MEDICATION INFORMATION

<sup>Pr</sup>**ACH-CANDESARTAN**

Candesartan Cilexetil Tablets

Tablets, 8 mg, 16 mg and 32 mg, Oral use

Angiotensin II AT<sub>1</sub> Receptor Blocker

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**RECENT MAJOR LABEL CHANGES**

None at time of the most recent authorization

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

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## PART I: HEALTH PROFESSIONAL INFORMATION

### 1 INDICATIONS

ACH-CANDESARTAN (candesartan cilexetil tablets) is indicated for:

- Hypertension
  - The treatment of mild to moderate essential hypertension.
  - ACH-CANDESARTAN may be used alone or concomitantly with thiazide diuretics.
  - The safety and efficacy of concurrent use with calcium channel blockers have not been established.
- Heart Failure
  - The treatment of NYHA Class II and III heart failure with ejection fraction  $\leq$  40% in addition to standard therapy, with or without an ACE inhibitor.

#### 1.1 Pediatrics

**Pediatrics (6 to 17 years of age):**

- Hypertension

ACH-CANDESARTAN is indicated for the treatment of essential hypertension in children and adolescents 6 to 17 years of age (see [7.1.3 Pediatrics](#), [14 CLINICAL TRIALS](#)).

- Heart Failure

The safety and efficacy of ACH-CANDESARTAN in the treatment of heart failure has not been established in children and adolescents <18 years.

#### 1.2 Geriatrics

**Geriatrics (> 65 years of age):** No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

### 2 CONTRAINDICATIONS

ACH-CANDESARTAN (candesartan cilexetil) is contraindicated in:

- Patients who are hypersensitive to this drug or to any ingredient in the formulation or component of the container. For a complete listing, see [6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING](#).
- Children aged <1 year.

- Pregnant women (see [7.1.1 Pregnant Women](#)).
- Nursing women (see [7.1.2 Breast-feeding](#)).
- Combination with aliskiren-containing drugs in patients with diabetes mellitus (type 1 or type 2) or moderate to severe renal impairment ( $GFR < 60 \text{ mL/min/1.73m}^2$ ) (see [Dual Blockade of the Renin-Angiotensin System \(RAS\)](#), [Renal](#), and [9.4 Drug-Drug Interactions](#)).
- Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption.

### 3 SERIOUS WARNINGS AND PRECAUTIONS BOX

#### Serious Warnings and Precautions

- When used in pregnancy, angiotensin receptor ( $AT_1$ ) blockers (ARBs) can cause injury or even death of the developing fetus. When pregnancy is detected, ACH-CANDESARTAN should be discontinued as soon as possible (see [7.1.1 Pregnant Women](#)).

### 4 DOSAGE AND ADMINISTRATION

#### 4.1 Dosing Considerations

The dosage of ACH-CANDESARTAN (candesartan cilexetil) must be individualized.

#### 4.2 Recommended Dose and Dosage Adjustment

##### Hypertension

##### Adults

Initiation of therapy requires consideration of recent antihypertensive treatment, the extent of blood pressure (BP) elevation, salt restriction, and other pertinent clinical factors. The dosage of other antihypertensive agents used with ACH-CANDESARTAN may need to be adjusted. BP response is dose related over the range of 4 - 32 mg.

The recommended initial dose of ACH-CANDESARTAN is 16 mg, once daily when used as monotherapy. Total daily doses of ACH-CANDESARTAN should range from 8 - 32 mg. Doses higher than 32 mg do not appear to have a greater effect on BP reduction, and there is relatively little experience with such doses. Most of the antihypertensive effect is present within 2 weeks and the maximal BP reduction is generally obtained within 4 weeks. For patients with possible depletion of intravascular volume (e.g. patients treated with diuretics, particularly those with impaired renal function) consideration should be given to administration of a lower dose. If BP is not controlled by candesartan cilexetil alone, a thiazide diuretic may be added (see [9.4 Drug-Drug Interactions](#)).

##### Concomitant Diuretic Therapy

In patients receiving diuretics, ACH-CANDESARTAN therapy should be initiated with caution, since these patients may be volume-depleted and thus more likely to experience hypotension following initiation of additional antihypertensive therapy.

Whenever possible, all diuretics should be discontinued 2-3 days prior to the administration of ACH-CANDESARTAN, to reduce the likelihood of hypotension (see [Hypotension](#)). If this is not possible because of the patient's condition, ACH-CANDESARTAN should be administered with caution and BP monitored closely. Thereafter, the dosage should be adjusted according to the individual response of the patient.

### **Dosage Adjustments in the Presence of Pathologies**

#### **Hepatic Impairment**

*Mild to moderate hepatic impairment:* No dosage adjustment is necessary.

*Severe hepatic impairment and/or cholestasis:* There is only limited experience. In patients with severely impaired hepatic function, a lower initial dose of 4 mg should be considered.

#### **Renal Impairment**

*Mild renal impairment:* No dosage adjustment is necessary

*Moderate or severe renal impairment or patients undergoing dialysis:* A lower initial dose of 4 mg should be considered.

### **Dosage Adjustments in Special Populations**

#### **Pediatrics (6 to 17 years of age)**

- Patients weighing <50 kg: The recommended starting dose is 4 mg once daily.

In some patients whose BP is not adequately controlled, the dose can be increased to 8 mg once daily.

The maximum dose is 8 mg once daily

- Patients weighing  $\geq$  50 kg: The recommended starting dose is 8 mg once daily.

In some patients whose BP is not adequately controlled, the dose can be increased to 16 mg once daily.

The maximum dose is 16 mg once daily.

The dose should be adjusted according to BP response.

Most of the antihypertensive effect is attained within 4 weeks.

Doses >32 mg have not been studied in pediatric patients.

For children with possible intravascular volume depletion (e.g. patients treated with diuretics,

particularly those with impaired renal function), ACH-CANDESARTAN treatment should be initiated under close medical supervision and a lower starting dose than the general starting dose above should be considered (see [7.1.3 Pediatrics](#)).

#### **Geriatrics (> 65 years of age)**

No dosage adjustment is necessary for elderly patients. As greater sensitivity of some older patients cannot be ruled out, appropriate caution is recommended (see [7.1.4 Geriatrics](#)).

#### **Heart Failure**

##### **Adults**

The usual recommended initial dose for treating heart failure is 4 mg once daily. The target dose is 32 mg once daily which is achieved by doubling the dose at approximately 2 week intervals, as tolerated by the patient. ACH-CANDESARTAN can be administered with other heart failure treatments including ACEIs, beta-blockers, diuretics, digoxin, and/or spironolactone.

No initial dose adjustment is necessary for elderly patients or in patients with renal or hepatic impairment.

##### **Pediatrics (6 to 17 years of age)**

The safety and efficacy of ACH-CANDESARTAN in the treatment of heart failure have not been established in children and adolescents <18 years of age.

#### **Geriatrics (> 65 years of age)**

No dosage adjustment is necessary for elderly patients. As greater sensitivity of some older patients cannot be ruled out, appropriate caution is recommended (see [7.1.4 Geriatrics](#)).

#### **4.4 Administration**

ACH-CANDESARTAN should be taken once daily, at approximately the same time each day, with or without food.

#### **4.5 Missed Dose**

If a patient misses a dose of ACH-CANDESARTAN and remembers within 12 hours, the patient should take the dose as soon as possible and then go back to the regular schedule. If it is more than 12 hours after the patient remembers, they should not take the missed dose; the next dose should be taken on time.

A double dose of ACH-CANDESARTAN should never be taken to make up for a missed dose.

### **5 OVERDOSAGE**

Limited data are available in regard to overdosage in humans. The most likely manifestations of overdosage would be hypotension, dizziness and tachycardia; bradycardia could occur from reflex

parasympathetic (vagal) stimulation. In case reports detailing overdose [ $\leq 672$  mg candesartan cilexetil] in adults, patient recovery was uneventful.

If symptomatic hypotension should occur, supportive treatment should be instituted and vital signs monitored. The patient should be placed supine with the legs elevated. If this is not sufficient, plasma volume should be increased by infusion of, for example, isotonic saline solution. Sympathomimetic drugs may also be administered if the above-mentioned measures are not sufficient.

Candesartan cilexetil is not removed from the plasma by hemodialysis.

For the most recent information in the management of a suspected drug overdose, contact your regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669).

## 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

**Table 1 – Dosage Forms, Strengths, and Composition**

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Oral Use	Tablet: 8 mg, 16 mg or 32 mg	Calcium carboxymethylcellulose, hydroxypropyl cellulose, iron oxide, lactose monohydrate, magnesium stearate, maize starch and polyethylene glycol.

### Description

ACH-CANDESARTAN 8 mg tablets are light pink coloured with mosaic appearance, round, biconvex, uncoated tablets debossed with "C2" on one side and breakline on other side, available in blister packs of 30 tablets and in bottles of 100 tablets.

ACH-CANDESARTAN 16 mg tablets are light pink coloured with mosaic appearance, round, biconvex, uncoated tablets debossed with "C3" on one side and breakline on other side, available in blister packs of 30 tablets and in bottles of 100 tablets.

ACH-CANDESARTAN 32 mg tablets are light pink coloured with mosaic appearance, round, biconvex, uncoated tablets debossed with "C4" on one side and breakline on other side, available in blister packs of 30 tablets and in bottles of 100 tablets.

## 7 WARNINGS AND PRECAUTIONS

Please see [3 SERIOUS WARNINGS AND PRECAUTIONS BOX](#).

### Cardiovascular

**Dual blockade of the Renin-Angiotensin System (RAS):** There is evidence that co-administration of angiotensin receptor antagonists (ARBs), such as candesartan cilexetil, or of angiotensin converting

enzyme inhibitors (ACEIs) with aliskiren increases the risk of hypotension, syncope, stroke, hyperkalemia and deterioration of renal function, including renal failure, in patients with diabetes mellitus (type 1 or type 2) and/or moderate to severe renal impairment ( $GFR < 60 \text{ mL/min/1.73m}^2$ ). Therefore, the use of ACH-CANDESARTAN in combination with aliskiren-containing drugs is contraindicated in these patients (see [2 CONTRAINDICATIONS](#)).

Further, co-administration of ARBs, including candesartan cilexetil, with other agents blocking the RAS, such as ACEIs or aliskiren-containing drugs, is generally not recommended in other patients, since such treatment has been associated with an increased incidence of severe hypotension, decreased renal function (including acute renal failure), and hyperkalemia.

Avoid the concomitant use of ACE inhibitors and ARBs in patients with diabetic nephropathy.

If dual blockade therapy is considered necessary, this should only occur under specialist supervision and subject to frequent close monitoring of renal function, electrolytes and blood pressure.

**Hypotension:** Occasionally, symptomatic hypotension has occurred after administration of candesartan cilexetil. It is more likely to occur in patients who are volume-depleted by diuretic therapy, dietary salt restriction, dialysis, diarrhea or vomiting, or undergoing surgery with anesthesia. In these patients, because of the potential fall in blood pressure (BP), therapy should be started under close medical supervision. Similar considerations apply to patients with ischemic heart or cerebrovascular disease, in whom an excessive fall in blood pressure could result in myocardial infarction or cerebrovascular accident (see [8 ADVERSE REACTIONS](#)).

**Heart Failure:** Patients with heart failure given candesartan cilexetil commonly have some reduction in BP. Caution should be observed when initiating therapy.

Triple combination of ACH-CANDESARTAN with an ACE-inhibitor and a mineralocorticoid receptor antagonist used in heart failure is also not recommended. Use of these combinations should be under specialist supervision and subject to frequent close monitoring of renal function, electrolytes and blood pressure.

**Valvular Stenosis:** There is concern on theoretical grounds that patients with aortic stenosis might be at particular risk of decreased coronary perfusion when treated with vasodilators because they do not develop as much afterload reduction.

### **Driving and Operating Machinery**

The effect of candesartan cilexetil on the ability to drive and use machines has not been studied, but based on its pharmacodynamic properties ACH-CANDESARTAN is unlikely to affect this ability. When driving vehicles or operating machines, it should be taken into account that dizziness or weariness may occur during treatment. Exercise caution when driving or operating a vehicle or potentially dangerous machinery.

### **Endocrine and Metabolism**

#### **Hyperkalemia**

**Heart Failure:** In heart failure patients treated with candesartan cilexetil, hyperkalemia may occur. During treatment with ACH-CANDESARTAN in patients with heart failure, periodic monitoring of serum potassium is recommended, especially when taken concomitantly with ACE inhibitors and potassium-sparing diuretics such as spironolactone.

## Renal

**Renal Impairment:** As a consequence of inhibiting the renin-angiotensin-aldosterone system (RAAS), changes in renal function have been seen in susceptible individuals. In patients whose renal function may depend on the activity of the RAAS, such as patients with bilateral renal artery stenosis, unilateral renal artery stenosis to a solitary kidney, or severe congestive heart failure, treatment with agents that inhibit this system has been associated with oliguria, progressive azotemia, and rarely, acute renal failure and/or death. In susceptible patients, concomitant diuretic use may further increase risk.

The use of ARBs, including ACH-CANDESARTAN, or ACEIs with aliskiren-containing drugs is contraindicated in patients with moderate to severe renal impairment (GFR <60 mL / min / 1.73m<sup>2</sup>) (see [2 CONTRAINDICATIONS](#) and [9.4 Drug-Drug Interactions](#)).

Use of candesartan cilexetil should include appropriate assessment of renal function.

**Heart Failure:** In heart failure patients, increases in serum creatinine may occur. Dosage reduction, and/or discontinuation of the diuretic, and/or ACH-CANDESARTAN, and/or volume repletion may be required. Monitoring of serum creatinine is recommended during dose escalation and periodically thereafter.

**Renal Transplantation:** There is limited experience regarding the administration of candesartan cilexetil in adult patients with renal transplant.

## 7.1 Special Populations

### 7.1.1 Pregnant Women

ACH-CANDESARTAN is contraindicated during pregnancy (see [2 CONTRAINDICATIONS](#)). Drugs that act directly on the RAAS can cause fetal and neonatal morbidity and death when administered to pregnant women. When pregnancy is detected, ACH-CANDESARTAN should be discontinued as soon as possible.

Epidemiological evidence regarding the risk of teratogenicity following exposure to ACEIs during the first trimester of pregnancy has not been conclusive; however a small increase in risk cannot be excluded. Given the current evidence available on the risk with ARBs, similar risks may exist for this class of drugs. Patients planning pregnancy should be changed to alternative anti-hypertensive treatments which have an established safety profile for use in pregnancy. When pregnancy is diagnosed, treatment with ARBs should be stopped immediately, and, if appropriate, alternative therapy should be started.

The use of ARBs during the second and third trimesters is known to induce human fetotoxicity (decreased renal function, oligohydramnios, skull ossification retardation) and neonatal toxicity (renal failure, hypotension, hyperkalemia).

**Animal data:** Oral doses  $\geq 10$  mg candesartan cilexetil / kg / day administered to pregnant rats during late gestation and continued through lactation were associated with reduced survival and an increased incidence of hydronephrosis in the offspring. Candesartan cilexetil given to pregnant rabbits at an oral dose of 3 mg / kg / day caused maternal toxicity (decreased body weight and death) but, in surviving dams, had no adverse effects on fetal survival, fetal weight, or external, visceral, or skeletal development. No maternal toxicity or adverse effects on fetal development were observed when oral doses  $\leq 1000$  mg candesartan cilexetil / kg / day were administered to pregnant mice.

### 7.1.2 Breast-feeding

It is not known whether candesartan is excreted in human milk, but significant levels have been found in the milk of lactating rats. Because many drugs are excreted in human milk, and because of their potential for adversely affecting the nursing infant, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother (see [2 CONTRAINDICATIONS](#)).

### 7.1.3 Pediatrics

#### **Pediatrics (6 to 17 years of age):**

**In utero exposure:** Infants with a history of in utero exposure to ARBs should be closely observed for hypotension, oliguria, and hyperkalemia. If oliguria occurs, attention should be directed toward support of blood pressure and renal perfusion. Exchange transfusion or dialysis may be required as a means of reversing hypotension and/or substituting for impaired renal function; however, limited experience with those procedures has not been associated with significant clinical benefit. Candesartan cilexetil is not removed from plasma by dialysis.

**Animal data-Heart development:** In preclinical studies in normotensive neonatal and juvenile rats, candesartan caused a reduction in relative and absolute heart weights. As in adult animals, these effects were considered to result from the pharmacological action of candesartan. At the lowest dose of 10 mg / kg, exposure to candesartan was 7-54x those found in children aged 6 to <17 years who received 16 mg of candesartan cilexetil. Since a NOAEL (no observed adverse effect level) could not be established in these studies, the safety margin for the effects on heart weight could not be determined. The clinical relevance of this finding is unknown.

**Black pediatric patients:** The antihypertensive effect of candesartan is less pronounced in Black patients compared with non-Black patients.

**Volume-depleted patients:** For children with possible intravascular volume depletion (e.g. patients treated with diuretics, particularly those with impaired renal function), ACH-CANDESARTAN treatment should be initiated under close medical supervision and a lower starting dose should be considered (see [4 DOSAGE AND ADMINISTRATION, Pediatrics](#)).

**Renal impairment:** Candesartan cilexetil has not been studied in children aged 6 to 17 years with renal impairment (see [4 DOSAGE AND ADMINISTRATION, Pediatrics](#)).

**Hepatic impairment:** There are no data on the effects of candesartan cilexetil in pediatric patients with hepatic impairment.

**Type 1 diabetes:** There is no experience regarding the administration of candesartan cilexetil in children aged 6 to <17 years with type 1 diabetes.

#### 7.1.4 Geriatrics

**Geriatrics (> 65 years of age):** No overall differences in safety or effectiveness were observed between subjects >65 years of age and younger subjects. In addition, other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

## 8 ADVERSE REACTIONS

### 8.1 Adverse Reaction Overview

#### Hypertension

##### Adults

Potentially serious adverse reactions reported rarely with candesartan cilexetil in controlled clinical trials were syncope and hypotension.

##### Pediatrics (6 to 17 years of age)

The adverse reaction profile of candesartan cilexetil as a treatment for hypertension in pediatric patients appeared similar to that seen in adults. However, the frequency of all adverse events (AEs) seemed higher.

Sinus arrhythmia, which was not reported in adults, was observed in 2.9% and 2.0% of pediatric patients taking candesartan cilexetil for 4 weeks and 1 year, respectively.

#### Heart Failure

Severe adverse reactions most commonly seen in adult heart failure patients taking candesartan cilexetil in controlled clinical trials were hypotension, hyperkalemia and renal impairment.

### 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.

#### Hypertension

##### Adults

Candesartan cilexetil was evaluated for safety in >8700 patients treated for hypertension, including 677 treated for  $\geq 6$  months and 626 for  $\geq 1$  year. Of these, 8694 were treated with candesartan cilexetil monotherapy in controlled clinical trials.

In placebo-controlled clinical trials, discontinuation due to AEs occurred in 2.9% and 2.7% of patients treated with candesartan cilexetil monotherapy and placebo, respectively.

In the double blind, placebo-controlled trials, the overall incidence of AEs showed no association with dose, age or gender. In these trials, the following AEs reported with candesartan cilexetil occurred in  $\geq 1\%$  of patients, regardless of drug relationship:

**Table 2 Adverse events that occurred in  $\geq 1\%$  of patients regardless of drug relationship**

	<b>Candesartan Cilexetil n = 1388</b>	<b>Placebo n = 573</b>
	<b>(%)</b>	<b>(%)</b>
<b>Body as a Whole</b>		
Back Pain	3.2	0.9
Fatigue	1.5	1.6
Abdominal Pain	1.5	1.3
Peripheral Edema	1.0	0.7
<b>Digestive</b>		
Nausea	1.9	1.3
Diarrhea	1.5	1.9
Vomiting	1.0	1.2
<b>Nervous/Psychiatric</b>		
Headache	10.4	10.3
Dizziness	2.5	2.3
<b>Respiratory</b>		
Upper Respiratory Infection	5.1	3.8
Coughing	1.6	1.1
Influenza-like Symptoms	1.5	0.8
Pharyngitis	1.1	0.4
Bronchitis	1.0	2.2
Rhinitis	1.0	0.4

Clinical trials in which doses  $\leq 32$  mg were administered did not result in a significant increase in any of the AEs listed above.

**Pediatrics (6 to 17 years of age)**

Candesartan cilexetil was evaluated for safety in 240 hypertensive pediatric patients aged 6 to 17 years during a 4-week placebo-controlled clinical trial and in 235 pediatric patients in the 1-year open-label extension study. A total of 213 pediatric patients from the placebo-controlled trial enrolled in the open-label study. There were 178 patients who were treated for  $\geq 1$  year.

The adverse reaction profile of candesartan cilexetil in pediatric patients appeared similar to that seen adults. However, the frequency of all AEs seemed higher.

In the placebo-controlled clinical trial, the most common AEs ( $\geq 3\%$  of patients) were cough, dizziness, headache, pharyngolaryngeal pain and upper respiratory tract infection. Dizziness was the most common drug-related AE.

In the open-label extension study, 3 out of 240 pediatric patients aged 6 to 17 years experienced worsening renal disease. The association between candesartan and the exacerbation of the underlying condition could not be excluded.

Sinus arrhythmia, which was not reported in adults, was observed in 2.9% and 2.0% of pediatric patients taking candesartan cilexetil for 4 weeks and 1 year, respectively.

### **Heart Failure**

The AE profile of candesartan cilexetil in adult heart failure patients was consistent with the pharmacology of the drug and the health status of the patients. In the CHARM-Alternative and CHARM-Added studies comparing candesartan cilexetil in total daily doses  $\leq 32$  mg once daily to placebo, 23.2 % of candesartan cilexetil and 18.4% of placebo patients discontinued the treatment due to AEs.

In these trials, the following AEs reported with candesartan cilexetil occurred in  $\geq 1\%$  of patients and with higher frequency than placebo, regardless of drug relationship.

**Table 3 Adverse events reported in CHARM-Alternative and CHARM-Added and occurring with frequency of  $\geq 1\%$  regardless of drug relationship**

	Candesartan Cilexetil n=2289	Placebo n=2287
	(%)	(%)
<b>Body as a Whole</b>		
Fatigue	1.4	0.9
<b>Cardiovascular Disorders</b>		
Hypotension	20.9	11.0
Syncope	3.3	3.2
Coronary artery disorder	4.2	3.5
Cardiac arrest	1.3	1.1
<b>Blood disorders</b>		
Anemia	2.8	2.3
<b>Gastro-Intestinal System disorders</b>		
Diarrhea	2.4	1.1
Gastroenteritis	1.1	0.7
<b>Liver and Biliary System Disorders</b>		
Cholelithiasis	1.1	0.9
<b>Metabolic and Nutritional Disorders</b>		
Hyperkalemia	7.6	2.6
Dehydration	2.5	1.3
Nonprotein nitrogen increased	1.3	0.3
Uremia	1.1	0.5
Gout	1.0	0.9
<b>Musculo-Skeletal System Disorders</b>		
Arthrosis	1.2	1.0
<b>Nervous System Disorders</b>		
Dizziness	3.4	2.1
Headache	1.0	0.7
<b>Urinary System Disorders</b>		
Renal function abnormal	14.3	7.2
Renal failure acute	3.0	1.8

### 8.3 Less Common Clinical Trial Adverse Reactions

#### Hypertension

The following AEs were reported at an incidence of < 1% in controlled clinical trials (in >1 patient, with higher frequency than placebo):

**Body as a Whole:** allergy, asthenia, pain, syncope.

**Cardiovascular:** angina pectoris, circulatory failure, flushing, hypotension, myocardial infarction, peripheral ischemia, thrombophlebitis.

**Central and Peripheral Nervous System:** hypertonia, hypoesthesia, paresthesia, vertigo.

**Gastrointestinal:** constipation, dry mouth, dyspepsia, toothache.

**Hearing:** tinnitus.

**Metabolic and Nutritional:** diabetes mellitus, hyperkalemia, hyponatremia.

**Musculoskeletal:** arthritis, arthropathy, myalgia, myopathy, skeletal pain, tendon disorder.

**Blood:** anemia, epistaxis.

**Psychiatric:** depression, impotence, neurosis.

**Reproductive:** menopausal symptoms.

**Resistance Mechanism:** otitis.

**Respiratory:** laryngitis.

**Skin:** eczema, pruritus, rash, skin disorder, sweating, (rarely) urticaria.

**Urinary:** abnormal urine, cystitis.

**Vision:** conjunctivitis.

AEs reported at a rate >1% but at about the same or greater incidence in patients receiving placebo, in studies using daily doses >16 mg: albuminuria, arthralgia, chest pain and sinusitis.

Other AEs reported at an incidence of  $\geq 0.5\%$  from >3200 patients treated worldwide include anxiety, dyspnea, fever, gastroenteritis, hematuria, hyperglycemia, hypertriglyceridemia, hyperuricemia, increased creatinine phosphokinase, palpitation, somnolence and tachycardia.

#### Heart Failure

The following listed AEs occurred in < 1% of patients treated with candesartan cilexetil but in  $\geq 2$  patients and with more frequent occurrence in the candesartan cilexetil group than in the placebo group (CHARM-Alternative and CHARM-Added).

**Liver and Biliary System Disorders:** hepatic function abnormal.

**Skin and Appendages Disorders:** angioedema, pruritus, rash.

**White Cell and Resistance Disorders:** granulocytopenia, leukopenia.

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

### Clinical Trial Findings

#### Hypertension

In controlled clinical trials, clinically important changes in standard laboratory parameters were rarely associated with administration of candesartan cilexetil.

*Liver Function Tests:* In controlled clinical trials, elevations of AST and ALT (> 3x the upper limit of normal) occurred in 0.3% and 0.5%, respectively, of patients treated with candesartan cilexetil monotherapy compared to 0.2% and 0.4%, respectively, of patients receiving placebo.

*Serum Potassium:* A small increase (mean increase of 0.1 mEq / L) was observed in hypertensive patients treated with candesartan cilexetil alone but was rarely of clinical importance.

*Creatinine, Blood Urea Nitrogen, and Sodium:* Infrequent minor increases in blood urea nitrogen (BUN) and serum creatinine as well as decreases in sodium were observed.

*Hemoglobin and Hematocrit:* Small decreases in hemoglobin and hematocrit (mean decreases of approximately 0.2 g / dL and 0.5 volume %, respectively) were observed in patients treated with candesartan cilexetil alone but were rarely of clinical importance. Anemia, leukopenia and thrombocytopenia were associated with withdrawal of 1 patient each from clinical trials.

*Hyperuricemia:* Hyperuricemia was rarely found (0.6% of patients treated with candesartan cilexetil and 0.5% of patients treated with placebo).

#### Heart Failure

Increases in serum creatinine, potassium and urea, and decreases in hemoglobin and hematocrit were observed.

## 8.5 Post-Market Adverse Reactions

In post-marketing experience, the following have been reported in patients treated with Candesartan cilexetil:

**Blood and lymphatic disorders:** thrombocytopenia

**Cardiac disorders:** atrial fibrillation, bradycardia, cardiac failure, palpitations

**Digestive:** abnormal hepatic function and hepatitis (very rare)

**Gastrointestinal disorders:** pancreatitis

**General disorders and administration site conditions:** chest pain, malaise, sudden death

**Hematologic:** agranulocytosis, leukopenia and neutropenia (very rare)

**Immunologic:** angioedema, (involving swelling of the face, lips and/or tongue) (rare) hypersensitivity

**Infections and infestations:** pneumonia

**Investigations:** blood creatinine increased, fall

**Metabolic and Nutritional Disorders:** hyperkalemia and hyponatremia

**Musculoskeletal System:** muscle pain, muscle weakness, myositis and rhabdomyolysis

**Nervous system disorders:** cerebrovascular accident, loss of consciousness, presyncope

**Psychiatric disorders:** confusional state

**Respiratory System Disorders:** cough, pulmonary edema

**Skin and Appendages Disorders:** pruritus, rash and urticarial

**Urogenital System:** renal impairment, including renal failure in elderly susceptible patients (see [Renal](#))

## 9 DRUG INTERACTIONS

### 9.1 Serious Drug Interactions

#### Serious Drug Interactions

- ACH-CANDESARTAN is contraindicated in combination with aliskiren-containing drugs in patients with diabetes mellitus (type 1 or type 2) or moderate to severe renal impairment (GFR < 60 mL/min/1.73m<sup>2</sup>) (see [2 CONTRAINDICATIONS](#) and [9.4 Drug-Drug Interactions](#)).

### 9.2 Drug Interactions Overview

*In vitro* studies indicate that cytochrome P450 isoenzyme CYP 2C9 is involved in the biotransformation of candesartan to its inactive metabolite. Based on *in vitro* data, no interaction would be expected to occur *in vivo* with drugs whose metabolism is dependent upon cytochrome P450 isoenzymes CYP1A2, CYP2A6, CYP2C9, CYP2C19, CYP2D6, CYP2E1 or CYP3A4.

Interaction studies have only been performed in adults.

### 9.4 Drug-Drug Interactions

*The drugs listed in Table 3 are based on either drug interaction case reports or studies or potential interactions due to the expected magnitude and seriousness of the interaction (i.e. those identified as contraindicated).*

**Table 4**      **Established or Potential Drug-Drug Interactions with Candesartan Cilexetil**

Proper Name	Source of Evidence	Effect	Clinical Comment
Agents Increasing Serum Potassium	T	Candesartan cilexetil decreases the production of aldosterone.	<p>Potassium-sparing diuretics or potassium supplements or other drugs that may increase potassium levels (e.g., heparin, co-trimoxazole) should be given only for documented hypokalemia and with frequent monitoring of serum potassium.</p> <p>Potassium-containing salt substitute should also be used with caution.</p>
Diuretics	CT	Patients on diuretics, and especially those in whom diuretic therapy was recently instituted, may occasionally experience an excessive reduction of blood pressure after initiation of therapy with candesartan cilexetil.	<p>The possibility of symptomatic hypotension with the use of candesartan cilexetil can be minimized by discontinuing the diuretic prior to initiation of treatment and/or lowering the initial dose of candesartan cilexetil (see <a href="#">7 WARNINGS AND PRECAUTIONS, Hypotension</a> ). No drug interactions of clinical significance have been identified with thiazide diuretics in patients treated with <math>\leq 25</math> mg hydrochlorothiazide with 16 mg candesartan cilexetil for 8 weeks.</p>
Digoxin	CT	Combination treatment with candesartan cilexetil and digoxin in healthy volunteers had no effect on AUC or $C_{max}$ values for candesartan compared to candesartan cilexetil alone.	No dosage adjustment.

Proper Name	Reference	Effect	Clinical Comment
Dual blockade of the Renin-Angiotensin System (RAS) with ARBs, ACEIs or aliskiren-containing drugs	CT	Clinical trial data has shown that dual blockade of the renin-angiotensin-system (RAS) through the combined use of ACE- inhibitors, angiotensin II receptor blockers or aliskiren is associated with a higher frequency of adverse events such as hypotension, hyperkalaemia and decreased renal function (including acute renal failure) compared to the use of a single RAS-acting agent.	Dual blockade of the RAS with ARBs or ACEIs and aliskiren-containing drugs is contraindicated in patients with diabetes and/or renal impairment (see <a href="#">2 CONTRAINDICATIONS</a> ). The combined use of ARBs, ACEIs or aliskiren-containing drugs is generally not recommended (see <a href="#">7 WARNINGS AND PRECAUTIONS, Dual Blockade of the Renin-Angiotensin-System (RAS)</a> ).
Enalapril	CT	While there is no clinically relevant interaction between candesartan and enalapril, patients with renal impairment showed a higher exposure to both drugs. This is consistent with the known pharmacokinetics of these 2 compounds.	Dosage may need to be adjusted based on the response of the patient.
Lithium Salts	CT	As with other drugs which eliminate sodium, lithium clearance may be reduced.	Serum lithium levels should be monitored carefully if lithium salts are to be administered.
Non-steroidal anti-inflammatory drugs (NSAIDs)	CT	Attenuation of the antihypertensive effect may occur when simultaneously administering ARBs and NSAIDs; i.e. selective COX-2 inhibitors, acetylsalicylic acid and non-selective NSAIDs.  As with ACEIs, concomitant use of ARBs and NSAIDs may lead to an increased risk of worsening of renal function,	The combination ARBs and NSAIDs should be administered with caution, especially in older patients and in volume depleted patients. Patients should be adequately hydrated and consideration should be given to monitoring renal function after initiation of concomitant therapy and periodically thereafter.

Proper Name	Reference	Effect	Clinical Comment
		including possible acute renal failure, and an increase in serum potassium, especially in patients with poor pre-existing renal function.	If combination use is necessary, monitor renal function, serum potassium, and blood pressure closely. Dose adjustments may be required. Patients with heart failure may be at particular risk.
Warfarin	CT	When candesartan cilexetil was administered at 16 mg once daily under steady state conditions, no pharmacodynamic effect on prothrombin time was demonstrated in subjects stabilized on warfarin.	No dosage adjustment
Other		No significant drug interactions have been reported with glyburide, nifedipine or oral contraceptives co-administered with candesartan cilexetil to healthy volunteers.	No dosage adjustment

Legend: C= Case Study; CT= Clinical Trial; T= Theoretical

### 9.5 Drug-Food Interactions

ACH-CANDESARTAN may be taken with or without food (see [4 DOSAGE AND ADMINISTRATION](#)).

### 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

Candesartan cilexetil antagonizes angiotensin II by blocking the angiotensin type one (AT<sub>1</sub>) receptor. Angiotensin II is the primary vasoactive hormone of RAAS with effects that include vasoconstriction, stimulation of aldosterone secretion and renal reabsorption of sodium.

Candesartan cilexetil, a prodrug, is rapidly converted to the active drug, candesartan, during absorption from the gastrointestinal tract.

Candesartan blocks the vasoconstrictor and aldosterone secreting effects of angiotensin II by selectively blocking the binding of angiotensin II to the AT<sub>1</sub> receptor in many tissues, such as vascular smooth muscle and the adrenal gland. Its action is therefore independent of the pathways for angiotensin II synthesis. There is also an AT<sub>2</sub> receptor found in many tissues, but it plays no known role in cardiovascular homeostasis to date. Candesartan has a much greater affinity (> 10,000 fold) for the AT<sub>1</sub> receptor than for the AT<sub>2</sub> receptor. The strong bond between candesartan and the AT<sub>1</sub> receptor is a result of tight binding to and slow dissociation from the receptor.

Candesartan does not inhibit ACE, also known as kininase II, the enzyme that converts angiotensin I to angiotensin II and degrades bradykinin, nor does it bind to or block other hormone receptors or ion channels known to be important in cardiovascular regulation.

## 10.2 Pharmacodynamics

Candesartan inhibits the pressor effects of angiotensin II infusion in a dose dependent manner. After 1 week of once-daily dosing of 8 mg candesartan cilexetil, the pressor effect was inhibited by approximately 90% at peak (4-8 hours after dosing) with approximately 50% inhibition persisting at 24 hours.

Plasma concentrations of angiotensin I, angiotensin II, and plasma renin activity, increased in a dose-dependent manner after single and repeated administration of candesartan cilexetil to adult healthy subjects, hypertensive and heart failure patients. A decrease in the plasma concentration of aldosterone was observed when 32 mg of candesartan cilexetil was administered to hypertensive patients.

**Animal Pharmacology:** In isolated rabbit aorta helical strips, candesartan at  $3 \times 10^{-11}$  to  $10^{-9}$  M decreased the maximal contractile response induced by angiotensin II. Candesartan at a concentration of 1 nM completely inhibited the response to angiotensin II in a concentration range of  $10^{-10}$  -  $10^{-7}$  M, an angiotensin II concentration which elicited a full concentration- response curve in the absence of candesartan. The dissociation rate of [<sup>3</sup>H]-candesartan binding from bovine adrenal cortical membranes, in vitro, was 5× slower ( $t_{1/2}$  = 66 min) than that of [<sup>125</sup>I]- angiotensin II binding ( $t_{1/2}$  = 12 min).

## 10.3 Pharmacokinetics

**Absorption:** Following oral administration of candesartan cilexetil as a tablet, the absolute bioavailability of candesartan is estimated to be approximately 15%. After tablet ingestion, the peak serum concentration ( $C_{max}$ ) is reached after 3-4 hours. Food does not affect the bioavailability of candesartan after candesartan cilexetil administration.

**Distribution:** The volume of distribution of candesartan is 0.13 L / kg. Candesartan is highly bound to plasma proteins (>99%) and does not penetrate red blood cells. The protein binding is constant at candesartan plasma concentrations well above the range achieved with recommended doses. In rats, it has been demonstrated that candesartan does cross the blood-brain barrier. It has also been demonstrated in rats that candesartan passes across the placental barrier and is distributed in the

fetus.

**Metabolism:** Candesartan cilexetil is rapidly and completely bioactivated to candesartan by ester hydrolysis during absorption from the gastrointestinal tract. It undergoes minor hepatic metabolism by O-deethylation to an inactive metabolite. *In vitro* studies indicate that cytochrome P450 isoenzyme CYP 2C9 is involved in the biotransformation of candesartan to its inactive metabolite. Based on *in vitro* data, no interaction would be expected to occur *in vivo* with drugs whose metabolism is dependent upon cytochrome P450 isoenzymes CYP1A2, CYP2A6, CYP2C9, CYP2C19, CYP2D6, CYP2E1 or CYP3A4.

**Elimination:** Total plasma clearance of candesartan is 0.37 mL / min / kg, with a renal clearance of 0.19 mL / min / kg. Candesartan is mainly excreted unchanged in urine and feces (via bile). When candesartan cilexetil is administered orally, about 26% of the dose is excreted as candesartan in urine. Following an oral dose of <sup>14</sup>C-labeled candesartan cilexetil, approximately 33% of radioactivity is recovered in urine and approximately 67% in feces. Following an intravenous (iv) dose of <sup>14</sup>C-labeled candesartan, approximately 59% of radioactivity is recovered in urine and approximately 36% in feces. Biliary excretion contributes to the elimination of candesartan. The elimination half-life of candesartan is approximately 9 hours. After single and repeated administration, the pharmacokinetics of candesartan are linear for oral doses ≤32 mg. Candesartan and its inactive metabolite do not accumulate in serum upon repeated once-daily dosing.

#### Special Populations and Conditions

- **Pediatrics (6 to 17 years of age):** Pediatric (6 to 17 years of age) hypertensive patients that received a 16 mg dose of candesartan cilexetil had exposure similar to adults given the same dose. The pharmacokinetics (C<sub>max</sub> and AUC) were not modified by age, sex or body weight. From the dose-ranging studies of candesartan cilexetil, there was a dose related increase in plasma candesartan concentrations.

Candesartan cilexetil pharmacokinetics have not been determined in children and adolescent (6 to 17 years of age) with renal insufficiency.

- **Geriatrics:** The plasma concentration of candesartan was higher in the elderly (≥ 65 years old) (C<sub>max</sub> was approximately 50% higher, and AUC was approximately 80% higher) compared to younger subjects administered the same dose. The pharmacokinetics of candesartan were linear in the elderly, and candesartan and its inactive metabolite did not accumulate in the serum of these subjects upon repeated, once-daily administration.
- **Sex:** No gender-related differences in the pharmacokinetics of candesartan have been observed.
- **Hepatic Insufficiency**  
Mild to moderate hepatic impairment: There was an increase in the AUC of candesartan of approximately 20%. There was no drug accumulation in plasma in these patients.

Moderate to severe hepatic impairment: C<sub>max</sub> and AUC increased up to 5x in a very small group administered a single dose of 16 mg candesartan (see [4 DOSAGE AND ADMINISTRATION](#),

[Hepatic Impairment](#)).

- **Renal Insufficiency**

Mild to moderate renal impairment (GFR 31-60 mL/min/1.73m<sup>2</sup>): C<sub>max</sub> and AUC of candesartan increased by 40-60% and 50-90%, respectively, but t<sub>1/2</sub> was not altered, compared to patients with normal renal function (GFR >60 mL/min/1.73m<sup>2</sup>) during repeated dosing. There was no drug accumulation in plasma.

Severe renal impairment (GFR 15-30 mL/min/1.73m<sup>2</sup>): The increases in C<sub>max</sub> and AUC were 40-60% and 110%, respectively. The terminal t<sub>1/2</sub> of candesartan was approximately 2x in patients with severe renal impairment, and these changes resulted in some accumulation in plasma.

Patients undergoing hemodialysis: The pharmacokinetics of candesartan were similar to those in patients with severe renal impairment (see [4 DOSAGE AND ADMINISTRATION, Renal Impairment](#)).

## 11 STORAGE, STABILITY AND DISPOSAL

Store at 15°C to 30°C.

## 12 SPECIAL HANDLING INSTRUCTIONS

Not applicable.

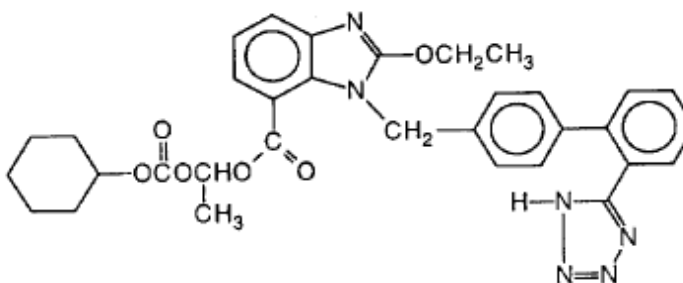
**PART II: SCIENTIFIC INFORMATION****13 PHARMACEUTICAL INFORMATION****Drug Substance**

Proper Name: candesartan cilexetil

Chemical Name: ( $\pm$ )-1-(Cyclohexyloxycarbonyloxy)ethyl-2-ethoxy-1-[[2'-(1H-tetrazol-5-yl)biphenyl-4-yl]methyl]-1H-benzimidazole-7-carboxylate

Molecular Formula and molecular mass: C<sub>33</sub>H<sub>34</sub>N<sub>6</sub>O<sub>6</sub>  
610.67 g/mol

Structural Formula:



Physicochemical Properties: Description:  
Candesartan cilexetil is a white to off-white powder. Solubility in benzyl alcohol: 205 g / L. Solubility in water:  $< 5 \times 10^{-5}$  g / L.  
Melting Point:  
163° C with decomposition.

**Table 5 - Partition Coefficient of Candesartan Cilexetil**

pH of Aqueous Layer	Partition Coefficient (K at 20°C)	
	Ethyl Ether	1-Octanol
1.1	> 1000	> 1000
6.9	> 1000	> 1000
8.9	141	> 1000

$$K = \frac{\text{Concentration of Candesartan Cilexetil in the organic layer}}{\text{Concentration of Candesartan Cilexetil in the aqueous layer}}$$

## 14 CLINICAL TRIALS

### 14.1 Efficacy and safety studies

#### Hypertension

##### Adults

Candesartan cilexetil causes a dose-dependent reduction in arterial blood pressure (BP). Systemic peripheral resistance is decreased, while heart rate, stroke volume and cardiac output are not significantly affected. No first dose hypotension was observed during controlled clinical trials with candesartan cilexetil.

Most of the antihypertensive effect was seen within 2 weeks of initial dosing, and the full effect in 4 weeks. With once-daily dosing, BP effect was maintained over 24 hours with trough to peak ratios of BP effect generally >80%. Candesartan cilexetil had an additional BP lowering effect when added to hydrochlorothiazide.

The antihypertensive effect was similar in men and women and in patients <65 and ≥65 years. Candesartan cilexetil was effective in reducing BP regardless of race, although the effect was somewhat less in Blacks (usually a low-renin population) than in Caucasians.

In long-term studies of ≤1 year, the antihypertensive effectiveness of candesartan cilexetil was maintained and there was no rebound after abrupt withdrawal.

Candesartan cilexetil reduces urinary albumin excretion in patients with type II diabetes mellitus, hypertension and microalbuminuria. In a 12-week study of 161 mildly hypertensive patients with type II diabetes mellitus, candesartan cilexetil 8-16 mg had no effect on mean A1c.

##### Pediatrics (6 to 17 years of age)

The antihypertensive effects of candesartan cilexetil were evaluated in hypertensive children aged 6 to < 17 years in a randomised, double-blind, multicentre, 4-week dose-ranging study. A total of 240 patients were randomised to receive either placebo or low (2/4 mg), medium (8/16 mg) or high (16/32 mg) doses of candesartan cilexetil in a ratio of 1:2:2:2. For children who weighed < 50 kg, the doses of candesartan cilexetil were 2, 8 or 16 mg once daily. For children who weighed ≥50 kg, the candesartan cilexetil doses were 4, 16 or 32 mg once daily. Of those enrolled, 47% were Black patients and 29% were female; mean age ± SD was 12.9 ± 2.6 years. In addition, the majority of patients were ≥95th percentile for body mass index (BMI) (68.8%) and suffered from primary hypertension (90.2%).

The placebo subtracted effect at trough for sitting systolic BP/ sitting diastolic BP for the different doses ranged from 4.9/3.0 to 7.5/6.2 mm Hg.

In children aged 6 to < 17 years, there was a trend for a lesser effect on BP in Black patients compared to non-Black patients. This was similar to what was observed in adults with hypertension.

##### *Comparative Effects*

The antihypertensive efficacy of candesartan cilexetil and losartan potassium have been compared at their once daily maximum doses, 32 mg and 100 mg, respectively, in patients with mild to moderate essential hypertension. Candesartan cilexetil lowered systolic and diastolic blood pressure by 2 to 3 mm Hg on average more than losartan potassium when measured at the time of either peak or trough effect. Both agents were well tolerated.

### Heart Failure

In heart failure patients, candesartan cilexetil administration resulted in a dose-related increase in plasma renin activity and angiotensin II concentration, and a decrease in aldosterone levels.

The effects of candesartan cilexetil on mortality and hospitalization due to Congestive Heart Failure (CHF) were evaluated in 2 studies, CHARM-Alternative and CHARM-Added. These were multinational, placebo-controlled, double-blind studies in patients with New York Heart Association (NYHA) functional class II to class IV CHF. Only 3% of the patient population within each of these studies had Class IV CHF as a baseline characteristic. CHARM-Alternative (n=2,028) included patients with a LVEF  $\leq$  40% not treated with ACE inhibitors because of intolerance. CHARM-Added (n=2,548) was carried out in patients with LVEF  $\leq$  40% tolerant of ACE inhibitors and treated with ACE inhibitors. In these studies patients were randomised to receive either placebo or candesartan cilexetil in addition to standard therapy. Candesartan cilexetil was titrated from 4 mg or 8 mg once daily to 32 mg once daily (mean 23 mg) or the highest tolerated dose. Patients were followed for  $\leq$ 4 years, with a median of 40 months. Standard therapy included diuretics,  $\beta$ -blockers, ACE inhibitors, digoxin and spironolactone.

The primary composite endpoint of cardiovascular (CV) mortality or first CHF hospitalisation was significantly reduced with candesartan cilexetil in comparison with placebo in CHARM- Alternative (hazard ratio (HR) 0.77, 95% CI 0.67-0.89,  $p < 0.001$ ) and in CHARM-Added (HR 0.85, 95% CI 0.75-0.96,  $p = 0.011$ ). This corresponded to a relative risk reduction of 23% and 15%, respectively.

**Table 6** CHARM – Alternative: Primary Endpoint and its Components

Endpoint (time to first event)	Candesartan cilexetil (n=1013)	Placebo (n=1015)	Hazard Ratio (95% CI)	p-value (logrank)	Relative Risk Reduction	Absolute Risk Reduction
CV death or CHF hospitalisation	334	406	0.77 (0.67-0.89)	<0.001	23%	7.0%
CV death	219	252	0.85 (0.71-1.02)	0.072	15%	3.2%
CHF hospitalisation	207	286	0.68 (0.57-0.81)	<0.001	32%	7.7%

NOTE: In CHARM-Alternative 14 patients needed to be treated for the duration of the study (median 34 months) to prevent 1 patient from dying of a CV event or being hospitalised for treatment of HF.

**Table 7** CHARM – Added: Primary Endpoint and its Components

Endpoint (time to first event)	Candesartan cilexetil (n=1276)	Placebo (n=1272)	Hazard Ratio (95% CI)	p-value (logrank)	Relative Risk Reduction	Absolute Risk Reduction
CV death or CHF hospitalisation	483	538	0.85 (0.75-0.96)	0.011	15%	4.4%
CV death	302	347	0.84 (0.72-0.98)	0.029	16%	3.6%
CHF hospitalisation	309	356	0.83 (0.71-0.96)	0.013	17%	3.8%

NOTE: In CHARM-Added 23 patients needed to be treated for the duration of the study (median 41 months) to prevent 1 patient from dying of a CV event or being hospitalised for treatment of HF.

The secondary composite endpoint of all-cause mortality or first CHF hospitalisation was also significantly reduced with candesartan cilexetil in CHARM-Alternative (HR 0.80, 95% CI 0.70-0.92, p=0.001) and CHARM-Added (HR 0.87, 95% CI 0.78-0.98, p=0.021). This corresponded to a relative risk reduction of 20% and 13%, respectively.

Treatment with candesartan cilexetil resulted in improved NYHA functional class in CHARM – Alternative (p=0.008) and CHARM-Added (p=0.020).

## 14.2 Comparative Bioavailability Studies:

A randomized, two-way, single-dose, crossover comparative bioavailability study of ACH-CANDESARTAN 8 mg tablets (Accord Healthcare Inc.) and <sup>Pr</sup>ATACAND<sup>®</sup> 8 mg tablets (AstraZeneca Canada Inc.) was conducted in healthy, adult, Asian male subjects under fasting conditions. Comparative bioavailability data from 20 subjects that were included in the statistical analysis are presented in the following table:

**SUMMARY TABLE OF THE COMPARATIVE BIOAVAILABILITY DATA**

Candesartan (1 x 8 mg) Geometric Mean Arithmetic Mean (CV %)				
Parameter	Test <sup>1</sup>	Reference <sup>2</sup>	% Ratio of Geometric Means	90% Confidence Interval
AUC <sub>T</sub> (ng·h/mL)	575.27 1800.82 (26.1)	614.17 1578.95 (26.2)	107.4	97.9 – 117.8
AUC <sub>I</sub> (ng·h/mL)	586.79 1855.21 (26.1)	628.54 1602.22 (26.0)	107.5	98.1 – 118.0
C <sub>max</sub> (ng/mL)	76.04 189.38 (26.2)	64.83 175.14 (31.7)	113.1	103.4 – 123.7
T <sub>max</sub> <sup>3</sup> (h)	3.88 (2.00 – 6.00)	4.00 (3.00 – 6.00)		
T <sub>½</sub> <sup>4</sup> (h)	8.35 (18.9)	8.16 (12.3)		

<sup>1</sup> ACH-Candesartan (candesartan cilexetil) tablets, 8 mg (Accord Healthcare Inc.)

<sup>2</sup> <sup>Pr</sup>ATACAND<sup>®</sup> (candesartan cilexetil) tablets, 8 mg (AstraZeneca Canada Inc.)

<sup>3</sup> Expressed as the median (range) only

<sup>4</sup> Expressed as the arithmetic mean (CV %) only

A randomized, two-way, single-dose, crossover comparative bioavailability study of ACH-CANDESARTAN 32 mg tablets (Accord Healthcare Inc.) and <sup>Pr</sup>ATACAND<sup>®</sup> 32 mg tablets (AstraZeneca Canada Inc.) was conducted in healthy, adult, Asian male subjects under fasting conditions. Comparative bioavailability data from 38 subjects that were included in the statistical analysis are presented in the following table:

**SUMMARY TABLE OF THE COMPARATIVE BIOAVAILABILITY DATA**

Candesartan (1 x 32 mg) Geometric Mean Arithmetic Mean (CV %)				
Parameter	Test <sup>1</sup>	Reference <sup>2</sup>	% Ratio of Geometric Means	90% Confidence Interval
AUC <sub>T</sub> (ng·h/mL)	4054.68 4291.47 (35.8)	3682.47 3873.47 (33.1)	110.1	102.9 – 117.8

Candesartan (1 x 32 mg) Geometric Mean Arithmetic Mean (CV %)				
Parameter	Test <sup>1</sup>	Reference <sup>2</sup>	% Ratio of Geometric Means	90% Confidence Interval
AUC <sub>t</sub> (ng·h/mL)	4148.46 4384.37 (35.4)	3782.18 3981.93 (33.7)	109.7	102.7 – 117.2
C <sub>max</sub> (ng/mL)	417.51 445.19 (37.7)	352.36 376.30 (40.0)	118.5	109.8 – 127.8
T <sub>max</sub> <sup>3</sup> (h)	3.75 (1.50 – 7.00)	3.92 (2.00 – 8.00)		
T <sub>½</sub> <sup>4</sup> (h)	7.24 (17.3)	7.65 (24.3)		

<sup>1</sup> ACH-Candesartan (candesartan cilexetil) tablets, 32 mg (Accord Healthcare Inc.)

<sup>2</sup> Pr<sup>ATACAND</sup>® (candesartan cilexetil) tablets, 32 mg (AstraZeneca Canada Inc.)

<sup>3</sup> Expressed as the median (range) only

<sup>4</sup> Expressed as the arithmetic mean (CV %) only

The bioequivalence of 1 candesartan cilexetil 32 mg tablet and 2 candesartan cilexetil 16 mg tablets was established in a single-blind, single-dose, randomised, 2-period crossover study in 50 (33 M/17 F) healthy volunteers. During each treatment period, subjects received candesartan cilexetil as a single oral dose of either 1 x 32 mg or 2 x 16 mg. The 2 treatment periods were separated by a washout of 6-14 days. The 90% confidence intervals for the ratio of 1 candesartan cilexetil 32 mg tablet versus 2 candesartan cilexetil 16 mg tablets for AUC<sub>0-inf</sub> and C<sub>max</sub> fell entirely within the equivalence range of 80-125%.

**Table 8 - Pharmacokinetic comparison of candesartan cilexetil 1 x 32 mg tablet versus 2 x 16 mg tablets**

Candesartan cilexetil (32 mg dose as either 1 x 32 mg or 2 x 16 mg) From measured data, uncorrected for potency Geometric Mean <sup>#</sup> Arithmetic Mean (CV%)				
Parameter	Test <sup>1</sup> (1 x 32 mg)	Reference <sup>2</sup> (2 x 16 mg) AstraZeneca, Sweden	% Ratio of Geometric Means <sup>#</sup>	90% Confidence Interval <sup>#</sup>
AUC(0-t) (nmol.h/L)	6038.5 6396.2 (23.5)	6056.7 6458.3 (26.2)	99.7	95.9; 103.7
AUC(0-∞) (nmol.h/L)	7032.6 7255.3 (23.8)	7085.3 7384.2 (28.4)	99.3	95.6; 103.0

C <sub>max</sub> (nmol/L)	559.6 625.0 (32.0)	548.1 616.8 (32.7)	102.1	95.5; 109.1
T <sub>max</sub> <sup>§</sup> (h)	4.64 (28.7%)	4.64 (30.9%)		
T <sub>½</sub> <sup>§</sup> (h)	9.47 (35.3%)	9.70 (41.7%)		

<sup>1</sup>Candesartan cilexetil 32 mg tablets

<sup>2</sup>Candesartan cilexetil 16 mg tablets identical to the tablets currently on the Canadian market (i.e., ATACAND 16 mg tablets, DIN 02239092)

§ Expressed as the arithmetic mean (CV%) only

# Based on the least-square means

## 15 MICROBIOLOGY

No microbiological information is required for this drug product.

## 16 NON-CLINICAL TOXICOLOGY

### General Toxicology

#### Acute Toxicity

**Table 9**            **Acute toxicity**

<b>Route</b>	<b>Species</b>	<b>Sex</b>	<b>LD50 Values</b>
intraperitoneal	mouse	female	891
		male	807
intraperitoneal	rat	female	1210
		male	940
intravenous	mouse	female	1,170
		male	1,120
intravenous	rat	female	1,550
		male	1,350
oral study with active metabolite (candesartan) and related substances	mouse	female male	>2,000 mg/kg for all substances tested
oral	mouse	female	>2,000 mg/kg
		male	>2,000 mg/kg
oral	rat	female	>2,000 mg/kg
		male	>2,000 mg/kg
oral	dog	male	>2,000 mg/kg
oral (4 week study)	monkey	female male	>60 mg/kg

**Chronic Toxicity:** The toxic potential of candesartan cilexetil was evaluated in a series of repeated-dose oral toxicity studies of  $\leq 26$  weeks in rats and  $\leq 1$  year in dogs. The "no toxic effect" dosage levels were concluded to be 10 mg / kg / day in the rat and 20 mg / kg / day in the dog.

**Table 10 Toxicity upon repeated oral administration**

Species/ Strain	Number of Animals	Duration and Route of Administration	Daily Dose (mg/kg)	Results
rat/F344	4 M+4 F	4 weeks Dietary	0 600 2,000 6,000	Food consumption decr. in F at 2,000 mg and in M+F at 6,000mg dose level. Urea N <sub>2</sub> incr. in M at ≥ 600 mg dosing, and in F at 6,000 mg dosing. Erythrocyte count, hematocrit value, hemoglobin concentration decr. in ≥ 2,000 mg groups. Extramedullary hemapoiesis in all male spleens, hypocellularity in bone marrow of 2 F and gastric ulcer/erosion in 2 F of 6,000 mg group. Hypertrophy of juxtaglomerular cells in kidneys and atrophy of zona glomerulosa in adrenal gland in all treated groups -- expected pharmacological responses. "No toxic effect": 2,000 mg/kg/day.
rat/F344	10 M+10 F	13 weeks Dietary	0 300 1,000 3,000	No deaths. Body weight gain suppression in M at ≥ 1,000 mg level. Slight decr. in erythrocyte count, hematocrit value, hemoglobin concentration in F of 300 mg group, M+F at ≥ 1,000 mg dose. Incr. inorganic phosphorus in all M groups, decr. Triglycerides (≥ 1,000 mg male group) and incr. cholesterol (3000 mg male group).
rat/F344/ Jcl	10 M+10 F	26 weeks Oral	0 1 10 100 1,000	No treatment-related deaths, nor abnormal appearance, clinical signs, ophthalmoscopy and urinalysis. Decr. in body weight gain and food consumption (M, 1000 mg dose, week 25). H <sub>2</sub> O intake + urine output incr. (M, 100, 1,000 mg dose). RBC parameter values decr. (M: 10- 1,000 dose; F: 100-1,000 dose). Heart wt. decr. in all except M at 1 mg dose. Ratio of kidney wt:body wt. incr. in M ≥ 10 mg dose, and in F ≥ 100 mg dose level. In M at 1000 mg level, incr. in adrenal wt., decr. in thymus wt. Hypertrophy of juxtaglomerular cell and intimal proliferation of interlobular
rat/F344/Jcl	10 M+10 F	2 week study of candesartan cilexetil and rel.substances	300 (283.2 mg can.cil. + 16.8mg rel. sub.)	No effects by related substances on the changes caused by candesartan cilexetil alone. No toxic effects caused by related substances.

dog/ Beagle	3 M+3 F	29-31 days Oral gavage	0 20 100 300	No animals died during dosing. Decr. erythrocyte parameters in 1 F in each of 100 mg and 300 mg groups. Dark red focus in stomach mucosa in 1 F at 300 mg dose level. Regeneration of tubular epithelium and dilatation of kidney tubules in 1 F at 100 mg level, 2 F at 300 mg level. Mononuclear cell infiltration in kidney in 2 F in both 100 mg and 300 mg groups. Erosion of stomach mucosa in 1 F at 300 mg. No testicular abnormalities. "No toxic
dog/ Beagle	4 M+4 F	26 weeks Oral	0 4 20 100	Suppression of body wt. and decr. erythrocyte parameters in F at 100 mg. Hypertrophy of juxtaglomerular cells at all dosage levels. Plasma levels of candesartan cilexetil dose dependent.
dog/ Beagle	4 M+4 F	52 weeks Oral	0 4 20 100 300	No clinical signs, effects on body wt., food consumption, physiological measurements, urine output, H <sub>2</sub> O intake, hematology, coagulation, or organ wts. Hypertrophy of juxtaglomerular cells at all dosage levels. Regeneration of renal tubule incr. in 100-300 mg dose groups. Plasma levels of

### Carcinogenicity

The carcinogenic potential of candesartan cilexetil was studied in rats after administration in the diet for 24 months. Dose levels were 100, 300 and 1000 mg/kg/day (50 male and 50 female rats per group). No alteration in tumour profile was observed. A 2-year oral gavage study of candesartan cilexetil in mice was performed at daily dosages of 3, 10, 30 and 100 mg / kg / day. There was no alteration in the tumour profile.

### Reproductive and Developmental Toxicology

**Fertility:** In studies concerning male and female rat fertility, no adverse effects were found on the reproductive organs. Mating performance, fertility and necropsy findings were unaffected by candesartan cilexetil treatment of males at 0-300 mg / kg / day from 9 weeks before mating to the day before necropsy, and similar findings were observed in females treated from 2 weeks before mating to day 7 of gestation. Fetuses showed no treatment-related abnormalities in mortality, weight, sex ratio, placentae or upon external, visceral or skeletal examinations.

**Effects on the development of the kidneys:** Animal studies with candesartan cilexetil have demonstrated late fetal and neonatal injury in the kidney. The mechanism is believed to be pharmacologically mediated through effects on the RAAS. The RAAS plays a critical role in kidney development. RAAS blockade has been shown to lead to abnormal kidney development in very young mice. Administering drugs that act directly on the RAAS, such as candesartan cilexetil, can alter normal renal development. Therefore, ACH-CANDESARTAN is contraindicated in children <1 year old

(see [2 CONTRAINDICATIONS](#)).

### **Mutagenicity**

*In vitro* studies [bacterial mutagenicity, gene mutation in mammalian (mouse) cells and cytogenic tests (hamster lung cells)] showed that candesartan cilexetil has no mutagenic activity in these systems. Study at the highest doses of the candesartan metabolites (2.5 and 5 mM in the 24-hour treatment series, and 1.25 and 2.5 mM in the 48-hour treatment series) suggested cytotoxicity-mediated clastogenicity as a mechanism for the breakage-type chromosome aberration effects observed. *In vivo* studies (micronucleus test in mouse, and unscheduled DNA synthesis assay in rat) indicate that candesartan cilexetil and its metabolites are neither mutagenic nor clastogenic.

**17 SUPPORTING PRODUCT MONOGRAPHS**

1. <sup>Pr</sup>ATACAND<sup>®</sup> (candesartan cilexetil) tablets submission control 283034, Product Monograph, CHEPLAPHARM Arzneimittel GmbH. (JUL 11, 2024)

## PATIENT MEDICATION INFORMATION

### READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

#### PrACH-CANDESARTAN

##### Candesartan cilexetil tablets

Read this carefully before you start taking **ACH-CANDESARTAN** 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 **ACH-CANDESARTAN**.

#### Serious Warnings and Precautions

ACH-CANDESARTAN should not be used during pregnancy. Taking ACH-CANDESARTAN during pregnancy can cause injury or even death to your baby. If you/your child discover that you/they are pregnant while taking ACH-CANDESARTAN, stop the medication and contact your/their healthcare professional as soon as possible.

#### What is ACH-CANDESARTAN used for?

ACH-CANDESARTAN is used to treat:

- mild to moderate high blood pressure in children (6 to 17 years of age) and adults. It may be used alone or in combination with diuretics (water pills).
- heart failure in adults. It may be used alone or with medicines called angiotensin-converting enzyme (ACE) inhibitors.

#### How does ACH-CANDESARTAN work?

ACH-CANDESARTAN is an angiotensin receptor blocker (ARB) that helps relax blood vessels. This makes it easier for your heart to pump blood around your body. You can recognize an ARB because its medicinal ingredient ends in “-SARTAN”.

This medicine does not cure your/your child’s disease. It helps to control it. Therefore, it is important to continue taking ACH-CANDESARTAN regularly even if you/your child feel fine.

#### What are the ingredients in ACH-CANDESARTAN?

Medicinal ingredient: Candesartan cilexetil

Non-medicinal ingredients: Calcium carboxymethylcellulose, hydroxypropyl cellulose, iron oxide (except 4 mg tablets), lactose monohydrate, magnesium stearate, maize starch and polyethylene glycol.

#### ACH-CANDESARTAN comes in the following dosage forms:

Tablets: 8 mg, 16 mg and 32 mg.

**Do not use ACH-CANDESARTAN if:**

- You/your child are allergic to candesartan cilexetil or to any non-medicinal ingredient in ACH-CANDESARTAN.
- You/your child have experienced an allergic reaction (angioedema) with swelling of the hands, feet, or ankles, face, lips, tongue, throat, or sudden difficulty breathing or swallowing, to any ARB. Be sure to tell your healthcare professional that this has happened to you/your child.
- You/your child are already taking a blood pressure-lowering medicine that contains aliskiren (such as Rasilez) and you/your child have diabetes or kidney disease.
- You/your child are pregnant or intend to become pregnant. Taking ACH-CANDESARTAN during pregnancy can cause injury and even death to your baby.
- You/your child are breastfeeding. It is possible that ACH-CANDESARTAN passes into breast milk.
- Your child is less than 1 year old
- You/your child have one of the following rare hereditary diseases:
  - Galactose intolerance
  - Lapp lactase deficiency
  - Glucose-galactose malabsorption
 Because lactose is a non-medicinal ingredient in ACH-CANDESARTAN.

**To help avoid side effects and ensure proper use, talk to your/your child's healthcare professional before you/your child take ACH-CANDESARTAN. Talk about any health conditions or problems you/your child may have, including if you/your child:**

- Have experienced an allergic reaction to any drug used to lower blood pressure, including angiotensin converting enzyme (ACE) inhibitors.
- Have or have had heart problems such as heart attack, heart failure and narrowing of an artery or a heart valve.
- Have had a stroke.
- Have heart failure.
- Have diabetes.
- Have kidney or liver problems.
- Are on dialysis.
- Are dehydrated or suffer from excessive vomiting, diarrhea, or sweating.
- Are taking a salt substitute that contains potassium, potassium supplements, or a potassium-sparing diuretic (a specific kind of "water pill" that makes your body keep potassium) or other drugs that may increase potassium levels such as heparin and co-trimoxazole.
- Are on a low-salt diet.
- Are taking an angiotensin converting enzyme (ACE) inhibitor. You can recognize ACE inhibitors because their medicinal ingredient ends in "-PRIL".
- Are taking an ACE inhibitor together with a medicine which belongs to the class of medicines known as mineralocorticoid receptor antagonists (for example, spironolactone, eplerenone). These medicines are for the treatment of heart failure.

**Other warnings you should know about:**

**Use of anesthesia:** If you/your child are about to have a surgery or dental procedure with anesthesia, be sure to tell your/your child's healthcare professional that you/your child are taking ACH-

CANDESARTAN.

**Driving and using machines:** Before you/your child perform tasks which may require special attention, wait until you/your child know how you/they respond to ACH-CANDESARTAN. Dizziness, lightheadedness, or fainting can especially occur after the first dose and when the dose is increased.

**Monitoring:** During your/your child's treatment with ACH-CANDESARTAN, your/your child's healthcare professional may monitor:

- Your/your child's kidney function
- You/your child's blood pressure
- The amount of electrolytes in your/your child's blood (such as potassium).

**Blood Tests:** ACH-CANDESARTAN can cause abnormal blood test results. Your/your child's healthcare professional will decide when to perform blood tests and will interpret the results.

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

#### Serious Drug Interactions

**Do not use ACH-CANDESARTAN if you/your child take:**

- medicines that contain aliskiren that are used to lower blood pressure and you/your child have diabetes or kidney disease.

**The following may also interact with ACH-CANDESARTAN:**

- Medicines that increase the potassium in the blood, such as a salt substitute that contains potassium, potassium supplements, potassium-sparing diuretic (a specific kind of "water pill"), or other drugs that may increase potassium levels such as heparin and co-trimoxazole.
- Lithium, used to treat bipolar disease.
- Nonsteroidal anti-inflammatory drugs (NSAIDs) such as ibuprofen, naproxen, and celecoxib, used to reduce pain and swelling.
- Blood pressure-lowering medicines, including diuretics ("water pills") or angiotensin converting enzyme (ACE) inhibitors.
- Mineralocorticoid receptor antagonists such as spironolactone and eplerenone, used to treat blood pressure and heart failure.

**How to take ACH-CANDESARTAN:**

- Take/give ACH-CANDESARTAN exactly as your/your child's healthcare professional has told you. Check with your/your child's healthcare professional if you are not sure.
- It is recommended that the dose is taken at about the same time every day. Take/give ACH-CANDESARTAN once a day.
- If you/your child take diuretics (i.e., "water pills"), your/your child's healthcare professional may ask you/your child to temporarily stop taking them 2 or 3 days before you/your child start your/their treatment with ACH-CANDESARTAN. They may also reduce their dose during your/your child's treatment. Furthermore, your/your child's healthcare professional may also prescribe you/your child other medications depending on your/your child's condition. Follow their instructions carefully.

**Usual dose:****Adults and children (6 to 17 years of age):**

Your/your child's healthcare professional will decide on the best dose of ACH-CANDESARTAN for you/your child and how long you/your child will take it. Your/your child's dose will depend on:

- Other medication you/your child take
- The severity of your/your child's condition
- The health of your/your child's kidney and liver
- How you/your child respond to treatment

Your/your child's healthcare professional will monitor your/your child's health throughout your/your child's treatment and may increase or decrease your/their dose as needed.

**Overdose:**

If you think you, or a person you are caring for, have taken too much ACH-CANDESARTAN, contact a healthcare professional, hospital emergency department, regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669) immediately, even if there are no signs or symptoms.

**Missed Dose:**

If you/your child miss a dose of ACH-CANDESARTAN and remember within 12 hours, you/your child should take your/their usual dose as soon as possible. Then go back to your/your child's regular schedule. But if it is more than 12 hours when you/your child remember, do not take/give the missed dose. Just take/give the next dose on time. Do not take/give a double dose.

**What are possible side effects from using ACH-CANDESARTAN?**

These are not all the possible side effects you/your child may have when taking ACH-CANDESARTAN. If you/your child experience any side effects not listed here, tell your/your child's healthcare professional.

Side effects may include:

- dizziness, falls
- drowsiness, difficulty falling asleep or staying asleep (insomnia)
- rash
- diarrhea, vomiting, nausea, constipation
- headache
- back or leg pain, muscle cramps
- cough
- sore throat
- dry mouth
- cold symptoms
- infection in the lungs (pneumonia)
- fainting spells
- confusion
- fatigue, lack of energy

- pain or swelling of the hands, arms, legs or feet

Side effects in adults and children are similar, but may occur more often in children.

<b>Serious side effects and what to do about them</b>			
<b>Symptom / effect</b>	<b>Talk to your healthcare professional</b>		<b>Stop taking drug and get immediate medical help</b>
	<b>Only if severe</b>	<b>In all cases</b>	
<b>COMMON</b>			
Fast, Slow or Irregular Heart Beat	✓		
<b>Hypotension</b> (low blood pressure): dizziness, fainting, light-headedness, blurred vision, nausea, vomiting, fatigue (may occur when you go from lying or sitting to standing up)	✓		
<b>Increased levels of potassium in the blood:</b> irregular heartbeats, muscle weakness and generally feeling unwell		✓	
<b>UNCOMMON</b>			
<b>Allergic Reaction:</b> rash, hives, swelling of the face, lips, tongue or throat, difficulty swallowing or breathing			✓
<b>Hematuria</b> (blood in urine)		✓	
<b>Kidney Disorder:</b> change in frequency of urination, nausea, vomiting, swelling of extremities, fatigue.		✓	
<b>Liver Disorder:</b> yellowing of the skin or eyes, dark urine, abdominal pain, nausea, vomiting, loss of appetite		✓	
<b>Shortness of breath, difficulty breathing</b> (Dyspnea, Pulmonary edema)	✓		
<b>RARE</b>			
<b>Rhabdomyolysis:</b> muscle pain that you cannot explain, muscle tenderness or weakness, dark brown urine		✓	
<b>VERY RARE</b>			
<b>Decreased Platelets:</b> bruising, bleeding, fatigue and weakness		✓	
<b>UNKNOWN FREQUENCY</b>			

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
<b>Anemia</b> (decreased number of red blood cells): fatigue, loss of energy, looking pale, shortness of breath, weakness		✓	
<b>Chest Pain</b>		✓	
<b>Decreased White Blood Cells:</b> infections, fatigue, fever, aches, pains, and flu-like symptoms		✓	
<b>Inflammation of the Pancreas:</b> abdominal pain that lasts and gets worse when you lie down, nausea and vomiting		✓	
<b>Stroke (cerebrovascular accident):</b> face or arm weakness, abnormal speech and blurred vision, loss of consciousness		✓	

If you/your child have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your/your child's daily activities, tell your/your child's 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 ([canada.ca/drug-device-reporting](http://canada.ca/drug-device-reporting)) 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:

- When you first open the package, if you find any damage to the plastic seal or foil which exposes the tablet, ask your pharmacist to check the package.
- Do not transfer ACH-CANDESARTAN to any other pill containers. Keep in the original package at room temperature (15°C to 30°C) and in a dry place. Do not keep ACH-CANDESARTAN in the bathroom.
- Do not keep or use ACH-CANDESARTAN after the expiry date indicated on the package.

Return any unused medicines, which you know will no longer need, to your pharmacy for disposal.

Keep out of reach and sight of children.

**If you want more information about ACH-CANDESARTAN:**

- 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.accordhealth.ca](http://www.accordhealth.ca), or by calling Accord Healthcare Inc. at 1-866-296-0354.

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