

## **SUMMARY OF PRODUCT CHARACTERISTICS**

### **1 NAME OF THE MEDICINAL PRODUCT**

Clonidine Hydrochloride 100 microgram Tablets

### **2 QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each tablet contains 100 micrograms of clonidine hydrochloride.

Excipients with known effect: Each tablet contains 58.700 mg of lactose monohydrate.

For the full list of excipients, see section 6.1.

### **3 PHARMACEUTICAL FORM**

Tablet

White to off-white coloured round biconvex 6 mm film coated tablets plain on both sides.

### **4 CLINICAL PARTICULARS**

#### **4.1 Therapeutic indications**

Clonidine 100 microgram Tablets is indicated for the treatment of all grades of essential and secondary hypertension.

#### **4.2 Posology and method of administration**

##### Posology

Clonidine 100 microgram Tablets are for oral administration only.

Adults:

Oral treatment should commence with 50 - 100 micrograms three times daily. This dose should be increased gradually every second or third day until control is achieved. Most patients will be controlled on divided daily doses of 300 - 1200 micrograms. However, some patients may require higher doses, e.g., 1800 micrograms or more.

Clonidine 100 microgram Tablets may be added to an existing antihypertensive regimen where blood pressure control has not been satisfactorily achieved. If side-effects with existing therapy are troublesome the concomitant use of Clonidine 100 microgram Tablets may allow a lower dose of the established regimen to be employed. Patients changing treatment should have their existing therapy reduced gradually whilst Clonidine 100 microgram Tablets is added to their regimen.

Patients undergoing anaesthesia should continue their Clonidine 100 microgram Tablets treatment before, during and after anaesthesia using oral or i.v. administration according to individual circumstances.

No specific information on the use of this product in the elderly is available. Clinical trials have included patients over 65 years and no adverse reactions specific to this age group have been reported.

Paediatric Population:

There is insufficient evidence for the application of clonidine in children and adolescents younger than 18 years. Therefore, the use of clonidine is not recommended in paediatric subjects under 18 years.

Patients with renal impairment:

Dosage must be adjusted according to the individual antihypertensive response which can show high variability in patients with renal insufficiency, careful monitoring is required (See Section 4.4) according to the degree of renal impairment.

### **4.3 Contraindications**

Clonidine 100 microgram Tablets should not be used in patients with known hypersensitivity to the active ingredient or other components of the product, and in patients with severe bradyarrhythmia resulting from either sick sinus syndrome or AV block of 2<sup>nd</sup> or 3<sup>rd</sup> degree.

In case of rare hereditary conditions that may be incompatible with an excipient of the product (please refer to section 4.4 Special Warnings and Precautions for Use) the use of the product is contraindicated.

### **4.4 Special warnings and precautions for use**

Caution should be exercised in patients with Raynaud's disease or other peripheral vascular disease. As with all drugs used in hypertension Clonidine 100 microgram Tablets should be used with caution in patients with cerebrovascular or coronary insufficiency.

Clonidine 100 microgram Tablets should also be used with caution in patients with mild to moderate bradyarrhythmia such as low sinus rhythm, and with polyneuropathy or constipation.

Patients with a known history of depression should be carefully supervised while under long-term treatment with Clonidine 100 microgram Tablets as there have been occasional reports of further depressive episodes during oral treatment in such patients.

As with other antihypertensive drugs, treatment with Clonidine 100 microgram Tablets should be monitored particularly carefully in patients with heart failure.

In hypertension caused by phaeochromocytoma no therapeutic effect of Clonidine 100 microgram Tablets can be expected.

Clonidine, the active ingredient of Clonidine 100 microgram Tablets, and its metabolites are extensively excreted in the urine. Dosage must be adjusted to the individual antihypertensive response, which can show high variability in patients with renal insufficiency (See Section 4.2); careful monitoring is required. Since only a minimal amount of clonidine is removed during routine haemodialysis there is no need to give supplemental clonidine following dialysis.

Sudden withdrawal of Clonidine 100 microgram Tablets, particularly in those patients receiving high doses, may result in rebound hypertension. Cases of agitation, restlessness, palpitations, nervousness, tremor, headache and abdominal symptoms have also been reported. Patients should be instructed not to discontinue therapy without consulting their physician. When discontinuing therapy, the physician should reduce the dose gradually. However, if withdrawal symptoms should nevertheless occur, these can usually be treated with reintroduction of clonidine or with alpha and beta adrenoceptor blocking agents.

If Clonidine 100 microgram Tablets is being given concurrently with a beta-blocker, Clonidine 100 microgram Tablets should not be discontinued until several days after the withdrawal of the beta-blocker.

Patients who wear contact lenses should be warned that treatment with Clonidine 100 microgram Tablets may cause decreased lacrimation.

This product contains 58.7 mg of lactose monohydrate per tablet. Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicine.

The use and the safety of clonidine in children and adolescents has little supporting evidence in randomized controlled trials and therefore cannot be recommended for use in this population.

Serious adverse events, including sudden death, have been reported in concomitant use with methylphenidate. The safety of using methylphenidate in combination with clonidine has not been systematically evaluated.

#### **4.5 Interaction with other medicinal products and other forms of interaction**

The reduction in blood pressure induced by clonidine can be further potentiated by concurrent administration of other hypotensive agents. This can be of therapeutic use in the case of other antihypertensive agents such as diuretics, vasodilators, beta-receptor blockers, calcium antagonists and ACE inhibitors, but the effect of alpha1-blockers is unpredictable.

The antihypertensive effect of clonidine may be reduced or abolished, and orthostatic hypotension may be provoked or aggravated by concomitant administration of tricyclic antidepressants or neuroleptics with alpha-receptor blocking properties.

Substances which raise blood pressure or induce a sodium ion (Na<sup>+</sup>) and water retaining effect such as non-steroidal anti-inflammatory agents can reduce the therapeutic effect of clonidine.

Substances with alpha2-receptor blocking properties, such as mirtazapine, may abolish the alpha2-receptor mediated effects of clonidine in a dose dependent manner.

Concomitant administration of substances with a negative chronotropic or dromotropic effect such as beta-receptor blockers or digitalis glycosides can cause or potentiate bradycardic rhythm disturbances. It cannot be ruled out that concomitant administration of a beta-receptor blocker will cause or potentiate peripheral vascular disorders.

Based on observations in patients in a state of alcoholic delirium it has been suggested that high intravenous doses of clonidine may increase the arrhythmogenic potential (QT-prolongation, ventricular fibrillation) of high intravenous doses of haloperidol. Causal relationship and relevance for antihypertensive treatment have not been established.

The effects of centrally depressant substances or alcohol can be potentiated by clonidine.

#### **4.6 Fertility, pregnancy and lactation**

##### *Pregnancy*

There is limited amount of data from the use of clonidine in pregnant women. This product should only be used in pregnancy if considered essential by the physician. Careful monitoring of mother and child is recommended.

Clonidine passes the placental barrier and may lower the heart rate of the foetus. Post partum a transient rise in blood pressure in the newborn cannot be excluded.

There is no adequate experience regarding the long-term effects of prenatal exposure.

During pregnancy the oral forms of clonidine should be preferred. Intravenous injection of clonidine should be avoided.

Non-clinical studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity.

##### *Lactation*

Clonidine is excreted in human milk. However, there is insufficient information on the effect on newborns. The use of Clonidine 100 microgram Tablets is therefore not recommended during breast-feeding.

##### *Fertility*

No clinical studies on the effect on human fertility have been conducted with clonidine. Non-clinical studies with clonidine indicate no direct or indirect harmful effects with respect to the fertility index.

#### **4.7 Effects on ability to drive and use machines**

No studies on the effects on the ability to drive and use machines have been performed.

However, patients should be advised that they may experience undesirable effects such as dizziness, sedation and accommodation disorder during treatment with Clonidine 100 microgram Tablets. If patients experience the above-mentioned side effects, they should avoid potentially hazardous tasks such as driving or operating machinery.

#### **4.8 Undesirable effects**

Most adverse effects are mild and tend to diminish with continued therapy.

Adverse events have been ranked under headings of frequency using the following convention:

Very common  $\geq 1/10$

Common  $\geq 1/100, <1/10$

Uncommon  $\geq 1/1000, <1/100$

Rare  $\geq 1/10000, <1/1000$

Very rare  $<1/10000$

Not known Cannot be estimated from the available data

Endocrine disorders:

Gynaecomastia rare

Psychiatric disorders:

Confusional state not known

Delusional perception uncommon

Depression common

Hallucination uncommon

Libido decreased not known

Nightmare uncommon

Sleep disorder common

Nervous system disorders:

Dizziness very common

Headache common

Paraesthesia uncommon

Sedation very common

Eye disorders:

Accommodation disorder not known

Lacrimation decreased rare

Cardiac disorders:

Atrioventricular block rare

Bradyarrhythmia not known

Sinus bradycardia uncommon

Vascular disorders:

Orthostatic hypotension very common

Raynaud's phenomenon uncommon

Respiratory, thoracic and mediastinal disorders:

Nasal dryness rare

Gastrointestinal disorders:

Colonic pseudo-obstruction rare

Constipation common

Dry mouth very common

Nausea common

Salivary gland pain common

Vomiting common

Skin and subcutaneous tissue disorders:

Alopecia	rare
Pruritus	uncommon
Rash	uncommon
Urticaria	uncommon

Reproductive system and breast disorders:

Erectile dysfunction	common
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General disorders and administration site conditions:

Fatigue	common
Malaise	uncommon

Investigations:

Blood glucose increased	rare
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There are occasional reports of fluid retention during initial stages of oral treatment. This is usually transitory and can be corrected by the addition of a diuretic.

Occasional reports of abnormal liver function tests and two cases of hepatitis have also been reported.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit / risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the Yellow Card Scheme website: [www.mhra.gov.uk/yellowcard](http://www.mhra.gov.uk/yellowcard) or search for MHRA Yellow Card in the Google Play or Apple App Store.

## **4.9 Overdose**

*Symptoms:*

Manifestations of intoxication are due to a generalised sympathetic depression and include pupillary constriction, lethargy, bradycardia, hypotension, hypothermia, somnolence including coma and respiratory depression including apnoea. Paradoxical hypertension caused by stimulation of peripheral alpha1-receptors may occur. Transient hypertension may be seen if the total dose is over 10 mg.

*Treatment:*

There is no specific antidote for clonidine overdose. Administration of activated charcoal should be performed where appropriate. Supportive care may include atropine sulfate for symptomatic bradycardia, and intravenous fluids and/or inotropic sympathomimetic agents for

hypotension. Severe persistent hypertension may require correction with alpha-adrenoceptor blocking drugs.

Naloxone may be a useful adjunct for the management of clonidine-induced respiratory depression.

## **5 PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Antimigraine preparations ATC code: N02C X02

Clonidine 100 microgram Tablets has been shown to have both central and peripheral sites of action. With long-term treatment Clonidine 100 microgram Tablets reduces the responsiveness of peripheral vessels to vasoconstrictor and vasodilator substances and to sympathetic nerve stimulation.

Early in treatment, however, blood pressure reduction is associated with a central reduction of sympathetic outflow and increased vagal tone.

Clinically, there may be reduced venous return and slight bradycardia resulting in reduced cardiac output. Although initially peripheral resistance may be unchanged, it tends to be reduced as treatment continues. There is no interference with myocardial contractility. Studies have shown that cardiovascular reflexes, as shown by the lack of postural hypotension and exercise hypotension, are preserved.

The efficacy of clonidine in the treatment of hypertension has been investigated in five clinical studies in paediatric patients. The efficacy data confirms the properties of clonidine in reduction of systolic and diastolic blood pressure. However, due to limited data and methodological insufficiencies, no definitive conclusion can be drawn on the use of clonidine for hypertensive children.

The efficacy of clonidine has also been investigated in a few clinical studies with paediatric patients with ADHD, Tourette syndrome and stuttering. The efficacy of clonidine in these conditions has not been demonstrated.

There were also two small paediatric studies in migraine, neither of which demonstrated efficacy. In the paediatric studies the most frequent adverse events were drowsiness, dry mouth, headache, dizziness and insomnia. These adverse events might have serious impact on daily functioning in paediatric patients.

Overall, the safety and efficacy of clonidine in children and adolescents have not been established (see section 4.2).

## **5.2 Pharmacokinetic properties**

### *Absorption and distribution*

The pharmacokinetics of clonidine is dose-proportional in the range of 75-300 micrograms; over this range, dose linearity has not been fully demonstrated.

Clonidine, the active ingredient of Clonidine 100 microgram Tablets, is highly absorbed and undergoes a minor first pass effect. Peak plasma concentrations are reached within 1-3 h after oral administration. The plasma protein binding is 30-40%.

Clonidine is rapidly and extensively distributed into tissues and crosses the blood-brain barrier, as well as the placental barrier. Clonidine is excreted in human milk. However, there is insufficient information on the effect on newborns.

### *Metabolism and elimination*

The terminal elimination half-life of clonidine has been found to range from 5 to 25.5 hours. It can be prolonged in patients with severely impaired renal function up to 41 hours.

About 70% of the dose administered is excreted with the urine mainly in form of the unchanged parent drug (40-60% of the dose). The main metabolite phydroxy- clonidine is pharmacologically inactive.

Approximately 20% of the total amount is excreted with the faeces. There is no definitive data about food or race effects on the pharmacokinetics of clonidine.

The antihypertensive effect is reached at plasma concentrations between about 0.2 and 2.0 ng/ml in patients with normal renal function. The hypotensive effect is attenuated or decreases with plasma concentrations above 2.0 ng/ml.

## **5.3 Preclinical safety data**

There are no preclinical data of relevance to the prescriber which are additional to that already included in other sections of the SPC.

# **6 PHARMACEUTICAL PARTICULARS**

## **6.1 List of excipients**

Pregelatinised maize starch

Lactose monohydrate

Isopropyl alcohol

Calcium hydrogen phosphate dihydrate (E341)

Colloidal anhydrous silica

Magnesium Stearate

Purified water

Opadry II White – which contains: HPMC (E464), Titanium dioxide (E171), Talc (E553b) and Polyethylene Glycol (E1521).

## **6.2 Incompatibilities**

Not applicable

## **6.3 Shelf life**

3 years

## **6.4 Special precautions for storage**

Do not store above 25°C.

Keep the blisters in the outer carton to protect from moisture.

## **6.5 Nature and contents of container**

Opaque PVC/PVDC blisters with aluminium lidding foil or Aluminium foil blisters with aluminium lidding in packs of 100 tablets.

## **6.6 Special precautions for disposal**

No special requirements

**7    MARKETING AUTHORISATION HOLDER**

Relonchem Limited  
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Gorse Lane,  
Widnes, Cheshire,  
WA8 0RP,  
United Kingdom.

**8    MARKETING AUTHORISATION NUMBER(S)**

PL 20395/0387

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