DUROMINE®

Phentermine capsules 15 mg and 30 mg

Presentation

DUROMINE 15 mg capsules
Grey and green hard gelatin capsules with the caption DUROMINE 15 printed in black in the axial direction on each capsule half. Each capsule contains phentermine ion-exchange resin complex that releases phentermine 15 mg.

DUROMINE 30 mg capsules
Grey and reddish brown hard gelatin capsules with the caption DUROMINE 30 printed in white in the axial direction on each capsule half. Each capsule contains phentermine ion-exchange resin complex that releases phentermine 30 mg.

Uses

Actions

Phentermine is a sympathomimetic amine chemically related to amphetamine with significant anorectic activity in animal models. Its appetite suppressant effect is generally considered to be exerted through the hypothalamus but it is not certain that this is the only effect related to weight loss. Phentermine has major effects on the dopaminergic and noradrenergic nervous systems. In addition to effects upon appetite suppression in the CNS, phentermine may also have peripheral effects related to lipid metabolism. The cardiovascular effects include a pressor response and an increase in heart rate and force of contraction.

Pharmacokinetics

Phentermine (phenyl tertiary butylamine) ion-exchange resin complex is quite stable, highly insoluble and without pharmacological effect until it reacts with cations (hydrogen, potassium, sodium, etc) present in the gastrointestinal fluids. Phentermine is then released from the resin complex at a rate dependent on the total concentrations of these cations. Since this concentration is fairly constant throughout the entire gastrointestinal tract, continuous and controlled ionic release occurs over a 10 to 14 hour period. Absorption of phentermine is almost complete. The rate of absorption from the resin complex is significantly slower than that from the hydrochloride salt, resulting in a lower and later peak blood level. Phentermine is readily absorbed from the gastrointestinal tract and approximately 70 to 80% of an
oral dose is excreted unchanged in the urine. The remainder is metabolised by the liver. The half-life of phentermine is about 25 hours. In one study in volunteers acidification of the urine reduced the half life to 7 to 8 hours.

**Indications**

DUROMINE is indicated as a short-term adjunct in a medically monitored comprehensive regimen of weight reduction based on exercise, diet (caloric restriction) and behaviour modification in obese patients with a body mass index (BMI) of 30kg/m² or greater who have not achieved an adequate clinical response to an appropriate weight-reducing regimen alone.

DUROMINE may appropriately be initiated in overweight patients with a lower BMI when risk of morbidity from other medical conditions is increased. Patients with the following co-morbidities are particular candidates for medical assistance with weight reduction, and may be considered for treatment even if their BMI does not exceed 30 kg/m²:

- sleep apnoea,
- insulin-resistant diabetes mellitus,
- pre-diabetes or impaired glucose tolerance in association with obesity,
- high cardiovascular risk status as a consequence of obesity

Failure to achieve a weight reduction of 5% within a period of 12 weeks is an indication for discontinuation of treatment. Treatment may continue beyond this point provided continued monitoring of the patient occurs (for weight loss and medical conditions) and for as long as weight loss is maintained.

Secondary organic causes of obesity should be excluded by diagnosis before prescribing this agent.

**Dosage and Administration**

For oral administration:

**Adults and children aged over 12 years**

One capsule daily at breakfast, swallowed whole. Evening dosing should be avoided as this agent may induce insomnia. It is recommended that treatment should be initiated under the care of medical practitioners experienced in the treatment of obesity.

The usual starting point of therapy is 30 mg daily. For lighter framed individuals or when side effects are evident, the 15 mg strength is the recommended alternative. Maintenance therapy, either continuous or intermittent, can be effectively managed with a dose between 15 mg and 30 mg daily. The recommended dose of DUROMINE should not be exceeded and DUROMINE should not be combined with other appetite suppressants in
an attempt to increase the effect. Patients require medical review after a
defined course of treatment which ideally should not exceed 3 months.

**Children**

DUROMINE is not recommended for children under the age of twelve.

**Elderly**

DUROMINE is not recommended for the elderly.

### Contraindications

Pulmonary artery hypertension, existing heart valve abnormalities or heart
murmurs, moderate to severe arterial hypertension, cerebrovascular disease,
severe cardiac disease including arrhythmias, advanced arteriosclerosis,
known hypersensitivity to sympathomimetic drugs, hyperthyroidism, agitated
states or a history of psychiatric illness including anorexia nervosa and
depression, glaucoma, history of drug/alcohol abuse or dependence.
Concomitant treatment with monoamine oxidase (MAO) inhibitors or within 14
days following their administration.

### Warnings and Precautions

DUROMINE capsules are indicated only as short-term monotherapy for the
management of exogenous obesity. The safety and efficacy of combination
therapy with phentermine and any other drug products for weight loss have
not been established. Therefore, co-administration of drug products for weight
loss is not recommended.

**Valvular Heart Disease**

Serious regurgitant cardiac valvular disease, primarily affecting the mitral,
aortic and/or tricuspid valves, has been reported in otherwise healthy persons
who had taken a combination of phentermine with fenfluramine or
dexfenfluramine for weight loss. The aetiology of these valvulopathies has not
been established and their course in individuals after the drugs are stopped is
not known. There have been no reported cases to date of this valvular
condition occurring with the use of phentermine alone.

Since the selective serotonin reuptake inhibitors (eg fluoxetine, sertraline,
fluvoxamine, paroxetine), ergot derived drugs and clomipramine affect
serotonin metabolism there remains a theoretical risk that combination of
these agents with phentermine may also be associated with cardiac valvular
disease, although there is no direct scientific evidence to confirm this theory.
Primary Pulmonary Hypertension (PPH)

Cases of severe, sometimes fatal, primary pulmonary hypertension have been reported in patients who have received anorectics. PPH has also been reported in patients receiving phentermine combined with fenfluramine/dexfenfluramine. The possibility of an association between PPH and the use of phentermine alone cannot be ruled out. There have been very rare cases of PPH in patients who reportedly have taken phentermine alone. The initial symptom of PPH is usually dyspnoea. Other early symptoms include angina pectoris, syncope, lower extremity oedema or the unexplained onset or aggravation of diminished exercise tolerance. Under these circumstances, treatment should be immediately discontinued and the patient referred to a specialist unit for investigation.

Use with caution in the following circumstances

DUROMINE should be used with caution in patients with mild hypertension. In the first days of treatment determine that there is no loss of blood pressure control.

In patients receiving DUROMINE, response to insulin and oral hypoglycaemic agents may vary due to alterations in dietary regimens. This should be kept in mind if DUROMINE is used in diabetic patients.

DUROMINE is not recommended in patients with pre-existing valvular heart disease.

Rarely, cases of cardiac and cerebrovascular accidents have been reported, often following rapid weight loss. Special care should be taken to ensure gradual and controlled weight loss in obese patients, who have an increased risk of vascular disease.

DUROMINE should be used with caution in patients under treatment with anti-hypertensive agents, since it may cause some loss of blood pressure control, and in patients receiving psychotropic drugs, including sedatives and sympathomimetic agents. DUROMINE should be used with caution in epileptic patients.

Inappropriate use of DUROMINE and similar medicines has been reported and the possibility of this occurrence should be considered and patients managed accordingly. As a result patients should be reviewed regularly in the process of their treatment and informed of other measures to effect weight loss.

DUROMINE should not be used in men or women for loss of weight for cosmetic reasons. Those who have failed to respond to medical treatment for weight loss in the past should only be treated after review by a medical practitioner specialising in the treatment of weight loss. The ability of the patient to maintain effective lifestyle interventions of exercise and diet, and adhere to a medical regimen should be assessed before treatment is commenced.
**Effects on ability to drive and operate machinery**

DUROMINE may impair the ability to perform activities requiring mental alertness, such as driving and operating machinery, and patients therefore should be cautioned accordingly. Patients may be at risk whilst driving or operating machinery.

**Pregnancy and lactation**

**Use in Pregnancy (Category B)**

Studies in animals have shown evidence of an increased occurrence of foetal damage, the significance of which is considered uncertain in humans. Due to inadequate evidence of safety in human pregnancy, DUROMINE should not be used in pregnant women.

**Use in Lactation**

There is no data available on the safety of DUROMINE in lactation and as such, its use in lactating women should be avoided.

**Adverse Effects**

**Cardiovascular**

(See Warnings and Precautions regarding the onset or aggravation of exertional dyspnoea). The most common reported reactions are tachycardia, palpitations, hypertension and precordial pain. Rarely, cases of cardiovascular or cerebrovascular accidents have been described in patients treated with anorectic agents. In particular stroke, angina, myocardial infarction, cardiac failure and cardiac arrest have been reported.

**Central Nervous System**

Overstimulation, restlessness, nervousness, insomnia, tremor, dizziness and headache. Rarely euphoria may occur and this may be followed by fatigue and depression. Psychotic episodes and hallucinations are rare side-effects.

**Gastrointestinal**

Nausea, vomiting, dry mouth, abdominal cramps, unpleasant taste, diarrhoea, constipation.

**Other**

Micturition disturbances, rash, impotence, changes in libido and facial oedema.
Interactions

Use DUROMINE with caution for patients receiving sympathomimetic agents. Response to insulin and oral hypoglycaemic agents may vary in patients receiving phentermine. Phentermine antagonises adrenergic neurone blocking drugs such as clonidine, methyldopa and guanethidine and may decrease their hypotensive effect. The effects of phentermine are potentiated by monoamine oxidase inhibitors (see contraindications) and may result in a hypertensive crisis. The concurrent use of thyroid hormones with DUROMINE may increase the CNS stimulation that can occur with DUROMINE. Alcohol may increase CNS side effects such as dizziness, light-headedness and confusion and its concurrent use should be avoided with DUROMINE. Serotonin reuptake inhibitors and tricyclic antidepressants may interact with DUROMINE by increasing serotonin levels, and DUROMINE should be used with caution in those taking these agents. Since the selective serotonin reuptake inhibitors (eg fluoxetine, sertraline, fluvoxamine, paroxetine), ergot derived drugs and clomipramine affect serotonin metabolism there remains a theoretical risk that combination of these agents with phentermine may also be associated with cardiac valvular disease, although there is no direct scientific evidence to confirm this theory.

Effects on Laboratory Tests

There are no reports to date to suggest that phentermine interferes with laboratory or diagnostic tests.

Overdosage

Symptoms and Signs

Initially euphoria, restlessness, irritability, tremor, hyper-reflexia, rapid respiration, confusion, agitation, assaultiveness, disorientation, hallucinations and panic states may occur. Fatigue, central nervous system depression, convulsions and coma may follow the central stimulation.

Cardiovascular effects include arrhythmias, hypertension or hypotension and circulatory collapse.

Gastrointestinal symptoms include nausea, vomiting, diarrhoea and abdominal cramps.
**Treatment**

The treatment of overdose is largely symptomatic. However, the stomach should be emptied by gastric lavage and washed out with water if the preparation has been ingested within the last three or four hours. Gastric lavage, followed by activated charcoal, may be the optimal decontamination regimen for patients expressing CNS depression. Diazepam, preferably by mouth (cautiously by intravenous injection) can be used to control marked excitement and convulsions. Provided renal function is adequate, acidification of the urine has been shown to increase elimination of phentermine. There is insufficient experience to recommend haemodialysis or peritoneal dialysis.

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**Pharmaceutical Precautions**

Shelf life is 36 months from date of manufacture, stored at or below 30°C. Keep away from light. Keep out of the reach of children.

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**Medicine Classification**

Controlled Drug C5

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**Package Quantities**

DUROMINE 15 mg capsules
Blister foil packs of 30 capsules.

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Blister foil packs of 30 capsules.

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**Further Information**

Excipients:
Each DUROMINE capsule contains, as inactive ingredients, lactose, liquid paraffin, magnesium stearate, gelatin, titanium dioxide and iron oxide black. DUROMINE 15 also contains brilliant blue FCF (CI 42090), iron oxide yellow (CI 77492). DUROMINE 30 also contains iron oxide red (CI 77491). DUROMINE capsules are gluten-free and preservative-free.
Name and Address

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23 February 2015