

**IRISH MEDICINES BOARD ACTS 1995 AND 2006**

**MEDICINAL PRODUCTS(CONTROL OF PLACING ON THE MARKET)REGULATIONS,2007**

**(S.I. No.540 of 2007)**

**PA0486/002/003**

Case No: 2050241

The Irish Medicines Board in exercise of the powers conferred on it by the above mentioned Regulations hereby grants to

**Innovata Biomed Ltd**

**1 Mere Way, Ruddington, Nottingham, NG11 6JS, United Kingdom**

an authorisation, subject to the provisions of the said Regulations, in respect of the product

**Clickhaler Beclometasone 250 micrograms. Inhalation powder.**

The particulars of which are set out in Part I and Part II of the attached Schedule. The authorisation is also subject to the general conditions as may be specified in the said Regulations as listed on the reverse of this document.

This authorisation, unless previously revoked, shall continue in force from **17/06/2008** until **29/10/2008**.

Signed on behalf of the Irish Medicines Board this

\_\_\_\_\_

A person authorised in that behalf by the said Board.

## Part II

### Summary of Product Characteristics

#### 1 NAME OF THE MEDICINAL PRODUCT

Clickhaler Beclometasone 250 micrograms. Inhalation Powder.

#### 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each metered actuation of 6.6 mg contains 250 micrograms of beclometasone dipropionate and delivers 225 micrograms of beclometasone dipropionate.

For excipients, see 6.1.

#### 3 PHARMACEUTICAL FORM

Inhalation powder.

White free-flowing powder.

#### 4 CLINICAL PARTICULARS

##### 4.1 Therapeutic Indications

Beclometasone Dipropionate is indicated for the control of persistent asthma.

##### 4.2 Posology and method of administration

The product is intended for oral inhalation only. For optimum results Clickhaler Beclometasone should be used regularly.

The initial dose should be appropriate to the severity of the disease and the maintenance dose titrated to the lowest dose at which effective control of asthma is achieved.

##### Adults:

The initial dose for patients with mild asthma is 200 to 400 micrograms per day; this may be increased to 800 micrograms per day if required.

For patients with moderate asthma and severe asthma the initial dose can be 800 to 1600 micrograms per day, increased to 2000 micrograms in severe cases. The normal maximum daily dose for adults is 2000 micrograms.

The maintenance dose is normally 200 to 400 micrograms twice daily. If necessary the dose may be increased to 1600 to 2000 micrograms per day divided into two to four doses and be reduced later when asthma is stabilised.

##### Children aged 6 - 12 years:

Up to 100 micrograms 2 to 4 times daily according to the clinical response.

Normally the maximum daily dose in children is 400µg. However some cases of severe asthma may not be controlled and higher doses may be required in line with international guidelines. Once the asthma is controlled, the dose of Clickhaler Beclometasone should be reduced to the minimum to maintain control.

When transferring a patient to Clickhaler Beclometasone from other devices, treatment should be individualised taking into consideration the active ingredient and method of administration.

### 4.3 Contraindications

Clickhaler Beclometasone is contra-indicated in patients with hypersensitivity (allergy) to beclometasone dipropionate or to the excipient (see 6.1 List of Excipients).

### 4.4 Special warnings and precautions for use

Patients should be instructed in the proper use of the inhaler. They should also be made aware of the prophylactic nature of therapy with Clickhaler Beclometasone and that they should use it regularly, every day, even when they are asymptomatic. Beclometasone dipropionate is not suitable for the treatment of an acute asthma attack.

Increasing use of bronchodilators, in particular short-acting inhaled  $\beta_2$ -agonists, to relieve symptoms indicates deterioration of asthma control. If patients find that short-acting relief bronchodilator treatment becomes less effective, or they need more inhalations than usual, medical attention must be sought. In this situation patients should be reassessed and consideration given to the need for increased anti-inflammatory therapy (e.g. higher doses of inhaled corticosteroids or a course of oral corticosteroids). Severe exacerbations of asthma must be treated in the normal way.

Systemic effects of inhaled corticosteroids may occur, particularly at high doses prescribed for prolonged periods. Possible systemic effects include adrenal suppression, growth retardation in children and adolescents, decrease in bone mineral density, cataract and glaucoma.

It is important therefore that the dose of inhaled steroids is titrated to the lowest dose at which effective control of symptoms is achieved.

It is recommended that the height of children receiving prolonged treatment with inhaled steroids is regularly monitored. If growth is slowed, therapy should be reviewed with the aim of reducing the dose of inhaled corticosteroid if possible, to the lowest dose at which effective control of symptoms is achieved.

Doses in excess of 1500 micrograms per day may induce adrenal suppression. In such patients the risks of developing adrenal suppression should be balanced against the therapeutic advantages, and precautions should be taken to provide systemic steroid cover in situations of stress or elective surgery.

The transfer to inhaled beclometasone dipropionate of patients who have been treated with systemic steroids for long periods of time, or at high dose, needs special care and subsequent management as recovery from impaired adrenocortical function is slow. With these patients adrenocortical function should be monitored regularly and their dose of systemic steroid reduced cautiously. Gradual withdrawal of the systemic steroid should commence after about one week. Reductions in dosage, appropriate to the level of maintenance systemic steroid, should be introduced at not less than weekly intervals.

Some patients may feel unwell in a non-specific way during withdrawal of the systemic steroid. They should be encouraged to persevere with the inhaled beclometasone dipropionate, unless there are objective signs of adrenal insufficiency.

Patients who have been transferred from oral steroids whose adrenocortical function is impaired should carry a steroid warning card indicating that they may need supplementary systemic steroids during periods of stress, e.g. worsening asthma attacks, chest infections, major intercurrent illness, surgery, trauma etc.

Replacement of systemic steroid treatment with inhaled therapy sometimes unmasks allergies such as allergic rhinitis or eczema previously controlled by the systemic drug.

In the case of massive mucus secretion in the respiratory tract, de-obstruction and a short course of oral steroids may be necessary to ensure efficacy of the inhaled beclometasone.

Special care is necessary in patients with active or quiescent pulmonary tuberculosis and in patients with viral, bacterial and fungal infections of the eye, mouth or respiratory tract. In the case of bacterial infection of the respiratory tract adequate antibiotic co-medication may be required.

Treatment with Clickhaler Beclometasone especially at high doses should not be stopped abruptly.

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

Due to the very low plasma concentration achieved after inhaled dosing, clinically significant drug interactions are in general unlikely. Care should be taken when co-administering known strong CYP 3A4 inhibitors (e.g. ketoconazole, itraconazole, nelfinavir, ritonavir) as there is a potential for increased systemic exposure to beclometasone.

#### **4.6 Pregnancy and lactation**

Pregnancy: There are insufficient data regarding the safety of beclomethasone dipropionate during human pregnancy. Systemic administration of relatively high doses of corticosteroids to pregnant animals can cause abnormalities of foetal development including cleft palate and intra-uterine growth retardation. There may therefore be a very small risk of such effects in the human foetus. Because beclomethasone dipropionate is delivered directly to the lungs by the inhaled route it avoids the high level of exposure that occurs when corticosteroids are given by systemic routes.

The use of beclometasone dipropionate in pregnancy requires that the possible benefits of the drug be weighed against the possible hazards. It should be noted that the drug has been in widespread use for many years without apparent ill consequence.

Lactation: It is reasonable to assume that beclometasone dipropionate is secreted in milk, but at the dosages used for direct inhalation there is low potential for significant levels in breast milk.

The use of beclometasone dipropionate in mothers breast feeding their babies requires that the therapeutic benefits of the drug be weighed against the potential hazards to the mother and baby.

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

None known

#### **4.8 Undesirable effects**

Candidiasis of the mouth and throat (thrush) may occur in some patients, which can be treated whilst still continuing with Clickhaler Beclometasone. Hoarseness may also occur. It may be helpful to rinse out the mouth thoroughly with water immediately after inhalation.

As with other inhalation therapy, the potential for paradoxical bronchospasm should be kept in mind. If it occurs, the preparation should be discontinued immediately and, if necessary, alternative therapy instituted.

Systemic effects of inhaled corticosteroids may occur, particularly at high doses prescribed for prolonged periods. These may include adrenal suppression, growth retardation in children and adolescents, decrease in bone mineral density, cataract and glaucoma and easy bruising of the skin.

Very rarely hypersensitivity, including rash and angioedema, may occur.

## 4.9 Overdose

**Acute** Inhalation of a large amount of the drug over a short period may lead to temporary suppression of adrenal function. No emergency action is required. Treatment with beclometasone dipropionate by inhalation should be continued at a dose sufficient to control asthma; adrenal function recovers in a few days and can be verified by measuring plasma cortisol.

**Chronic** Use of excessive doses of inhaled beclometasone dipropionate over a prolonged period may cause adrenal suppression and a degree of atrophy of the adrenal cortex. Transfer to a maintenance dose of a systemic steroid may be required until the condition is stabilised. Treatment with inhaled beclometasone dipropionate should then be continued at a dose sufficient to control asthma.

If higher than approved doses are continued over prolonged periods, significant adrenal suppression and adrenal crisis are possible. Presenting symptoms of adrenal crisis may initially be non-specific and include anorexia, abdominal pain, weight loss, tiredness, headache, nausea, vomiting. Hypoglycaemia with decreased consciousness and/or convulsions is a typical symptom. Situations which could potentially trigger acute adrenal crisis include exposure to trauma, surgery, infection or any rapid reduction in dosage.

## 5 PHARMACOLOGICAL PROPERTIES

### 5.1 Pharmacodynamic properties

ATC code: R03B A01. Other anti-asthmatics, inhalants, glucocorticoids.  
Beclometasone dipropionate given by inhalation has a glucocorticoid anti-inflammatory action within the lungs.

The exact mechanism responsible for this anti-inflammatory effect is unknown.

### 5.2 Pharmacokinetic properties

Absorption from the gastrointestinal tract is slow and bioavailability is low, suggesting that most of the absorbed drug is metabolised during its first passage through the liver. Since the dose of oral beclometasone dipropionate needed to suppress plasma cortisol is greater than that required by inhalation, this suggests that the portion absorbed from the lungs is mainly responsible for any systemic effects.

### 5.3 Preclinical safety data

Studies in a number of animal species, including rats, rabbits and dogs, have shown no unusual toxicity during acute experiments. The effects of beclometasone dipropionate in producing signs of glucocorticoid excess during chronic administration by various routes are dose related. Teratogenicity testing has shown cleft palate in mice, as with other glucocorticoids. Beclometasone dipropionate is non-genotoxic and demonstrates no oncogenic potential in lifetime studies with rats.

## 6 PHARMACEUTICAL PARTICULARS

### 6.1 List of excipients

Lactose monohydrate (which contains milk proteins)

### 6.2 Incompatibilities

Not applicable

### **6.3 Shelf Life**

2 years.

6 months when removed from the foil pouch.

### **6.4 Special precautions for storage**

Do not store above 30°C. Store in a dry place.

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

A plastic inhaler device incorporating a metering pump and a mouthpiece enclosed within a polyester/aluminium/polyethylene heat-sealed sachet. Each 250 microgram inhaler contains 100 actuations.

### **6.6 Special precautions for disposal of a used medicinal product or waste materials derived from such medicinal product and other handling of the product**

1. Remove mouthpiece cover from the inhaler.
2. Shake the inhaler well.
3. Hold the inhaler upright with thumb on the base and finger on the push button. Press the dosing button down firmly – once only.
4. Breathe out as far as is comfortable.  
Note: do not blow into the device at any time.
5. Place mouthpiece in your mouth. Close lips firmly around it (do not bite it).
6. Breathe in through your mouth steadily and deeply, to draw the medicine into your lungs.
7. Hold your breath, take the inhaler from your mouth and continue holding your breath for about 5 seconds.
8. For the second puff, keep the inhaler upright and repeat steps 2-7
9. Replace the mouthpiece cover.

## **7 MARKETING AUTHORISATION HOLDER**

Innovata Biomed Ltd  
1 Mere Way  
Ruddington  
Nottingham, NG11 6JS  
United Kingdom

## **8 MARKETING AUTHORISATION NUMBER**

PA 486/2/3

## **9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

Date of first authorisation: 7<sup>th</sup> September 1999

Date of last renewal: 30<sup>th</sup> October 2003

**10 DATE OF REVISION OF THE TEXT**

May 2007