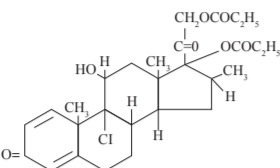


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PRODUCT INFORMATION
QVAR[®] AUTOHALER[®]

NAME OF DRUG

The active ingredient in QVAR is beclomethasone dipropionate. Beclomethasone dipropionate is a white to creamy white, odourless powder, it is slightly soluble in water, very soluble in chloroform and freely soluble in acetone and alcohol.



QVAR also contains ethanol and norflurane (HFA-134a), a propellant which does not contain chlorofluorocarbons (CFCs).

DESCRIPTION

QVAR Autohaler is a breath actuated inhaler which automatically releases a metered dose of medication during inhalation through the mouthpiece and overcomes the need for patients to coordinate actuation with inspiration.

QVAR contains beclomethasone dipropionate in solution, resulting in an extrafine aerosol. The aerosol droplets of QVAR are on average much smaller (MMAD range 0.8 to 1.2 microns) than the particle sizes delivered by CFC-suspension formulations (MMAD range 3.5 to 4 microns) or dry powder formulations (MMAD approximately 10 microns) of beclomethasone dipropionate.

Radiolabelled deposition studies demonstrated that for QVAR the majority of beclomethasone dipropionate (>55% dose ex actuator) is deposited in the lungs and a small amount (< 35% dose ex actuator) is deposited in the oropharynx.

PHARMACOLOGY

Pharmacodynamics

Bronchial inflammation is known to be an important component in the pathogenesis of asthma. Inflammation occurs in both large and small airways.

of inflammatory mediators. It is presumed that these anti-inflammatory actions play an important role in the efficacy of beclomethasone dipropionate in controlling symptoms and improving lung function in asthma although the exact mechanism of action of beclomethasone in the lungs is unknown.

A pharmacodynamic study in 43 steroid naive asthmatics given either placebo, 200, 400 or 800µg/day of QVAR, or 800µg/day of CFC-BDP for 14 days showed a linear correlation between reduction in 24-hour urinary free cortisol levels (24h-UFC) and dose of BDP administered, as well as between BDP dose and serum total-BOH levels.

In two 12 week trials conducted in patients with symptomatic moderate (n=347) and symptomatic moderately severe (n=233) asthma, plasma cortisol levels were monitored as a secondary safety assessment to determine HPA-axis suppression.

In a 12 month study in 473 asthmatic patients given either QVAR in a dose range of 200 to 800 µg/day or CFC-BDP in a dose range of 400 to 1600 µg/day, adrenal function was assessed by plasma cortisol levels and response to cosyntropin.

A 12 month multicentre study in 520 paediatric patients with asthma demonstrated that the effect on growth of 100-200µg/day of QVAR from the Autohaler was comparable to those of 200-400µg/day of CFC-BDP from a P&B MDI with spacer.

Clinical studies indicate that CFC-BDP and QVAR inhalers are clinically equivalent when given in a dose ratio of 2.5 to 1.

Pharmacokinetics

Beclomethasone dipropionate is hydrolysed in the lungs to beclomethasone monopropionate before reaching the systemic circulation and is further metabolised during its passage through the liver.

The pharmacokinetics of beclomethasone (BOH) and of total-BOH have been measured over 24 hours in mild asthmatics given single and multiple doses of QVAR. Total BOH was obtained by hydrolyzing any beclomethasone dipropionate and monopropionates in the serum samples to BOH.

Pharmacokinetic data in the paediatric population shows that the AUC for the dominant active metabolite 17-BMP after administration of 200µg of QVAR from the Autohaler is similar to that of 400µg of CFC-BDP given via an inhaler with spacer.

INDICATIONS

QVAR is indicated for the prophylactic management of asthma.

CONTRAINDICATIONS

Hypersensitivity to beclomethasone dipropionate or any other ingredient in QVAR.

PRECAUTIONS

QVAR is not indicated for immediate relief of asthma attacks or status asthmaticus. If the prescribed dose of QVAR is no longer effective or symptoms get worse, the patient must seek medical attention for review of maintenance therapy.

Asthma management should be adjusted according to individual need based on lung function and clinical monitoring. Increasing use of a β₂-agonist may be a sign of worsening asthma. Under these circumstances a re-assessment of the patients' therapy plan may be required and increasing glucocorticosteroid therapy should be considered.

Inhaled steroid products are designed to direct glucocorticoid activity to the lungs in order to reduce the overall systemic glucocorticoid exposure and side effects. In sufficient doses however all inhaled steroids can have adverse effects, notably depression of the hypothalamic-pituitary-adrenal (HPA) axis.

Patients who have received systemic steroids need special management when being transferred to inhaled steroid therapy. As recovery from impaired adrenocortical function caused by prolonged systemic steroid therapy is slow, adrenocortical function should be monitored regularly.

In patients who have been transferred from oral steroids to inhalation therapy, systemic steroid therapy may need to be reinstated rapidly during periods of stress or where airways obstruction or mucus significantly compromises the inhaled route of administration.

QVAR contains a hydrofluoroalkane propellant (norflurane). In animal studies, narcosis and sensitisation to the arrhythmogenic effects of adrenaline were observed following inhalation of norflurane at high exposure concentrations.

Drug Interactions

No clinically significant drug interactions have been associated with therapeutic doses of beclomethasone dipropionate.

Beclomethasone is less dependent on CYP3A metabolism than some other corticosteroids, and in general interactions are unlikely; however the possibility of systemic effects with concomitant use of strong CYP3A inhibitors (e.g. cobicistat) cannot be excluded.

Use in Children

To minimise the systemic effects of orally inhaled corticosteroids, the dose should be titrated down to the lowest that provides effective asthma control.

Use in Pregnancy (Category B3)

There is inadequate clinical evidence of the safety of QVAR used during pregnancy. In animals, systemic administration of relatively high doses of beclomethasone dipropionate can cause abnormalities of foetal development including growth retardation and cleft palate.

Use in Lactation

It is probable that beclomethasone is excreted in milk. However, given the relatively low doses used by the inhalation route, the levels are likely to be low.

Carcinogenicity, Mutagenicity and Impairment of Fertility

Potential carcinogenicity, mutagenicity and impairment of fertility have not been adequately investigated in animal studies of beclomethasone dipropionate.

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ADVERSE REACTIONS

When using QVAR an occasional incidence of hoarseness and/or a rare occurrence of candidiasis of throat and mouth may occur. Patients may find it helpful to rinse out their mouth with water after using their inhaler to reduce the risk of candidiasis and hoarseness.

As with other inhaled therapy, paradoxical bronchospasm with wheezing may occur immediately after dosing. Immediate treatment with an inhaled short-acting bronchodilator is required. QVAR should be discontinued immediately and alternate prophylactic therapy introduced.

The following adverse reactions, probably or possibly related to the use of QVAR, were recorded during clinical trials with a frequency of less than 1 %

Application Site Disorders

Uncommon: cough; increased asthma symptoms.

General Disorders

Uncommon: chest pain. Rare: asthenia; back pain; fatigue; oedema; pain.

Cardiovascular Disorders, General

Rare: hypertension.

Central & Peripheral Nervous System Disorders

Uncommon: dizziness; dysphonia; migraine. Rare: neuropathy; tremor; vertigo.

Gastro-Intestinal System Disorders

Uncommon: abdominal pain, constipation. Rare: dyspepsia, GI disorders (unspecified); nausea; tongue discoloration; toothache.

Heart Rate and Rhythm Disorders

Rare: palpitations.

Metabolic and Nutritional Disorders

uncommon: weight increase.

Musculo-Skeletal System Disorders

Uncommon: myalgia.

Myo Endo Pericardial & Valve Disorders

Rare: angina pectoris.

Platelet, Bleeding & Clotting Disorders

Uncommon: epistaxis.

Psychiatric Disorders

Uncommon: increased appetite. Rare: anxiety; depression; insomnia.

Resistance Mechanism Disorders

Uncommon: infection. Rare: Infection bacterial

Respiratory System Disorders

Uncommon: bronchitis; coughing; upper resp tract infection. Rare: acute asthma episode; hemoptysis; respiratory disorder; sinusitis.

Skin & Appendages Disorders

Uncommon: rash. Rare: photosensitivity reaction; skin disorder; urticaria

Vascular (Extracardiac) Disorders

Uncommon: purpura.

DOSAGE AND ADMINISTRATION

The recommended total daily dose of QVAR is lower than that for current CFC-BDP products and should be adjusted to the individual patient.

Proper instruction and good inhaler technique is necessary to get maximum benefit from QVAR Inhaler. For patients who are unable to successfully coordinate actuation of the metered dose inhaler with inhalation QVAR Autohaler should be substituted.

feel than a CFC inhaler.

QVAR delivers a consistent dose of beclomethasone dipropionate - whether or not the canister is shaken - without the need for the patient to wait between individual actuations

Patients should be instructed to rinse their mouth out each time after using QVAR.

Where a spacer is considered necessary the Aerochamber is a suitable device for use with QVAR inhalers. Use of a spacer with QVAR inhalers reduces the amount of drug deposited in the oropharynx without affecting drug deposition in the lungs.

Starting and Maintenance Dose: The recommended dose of QVAR in adults is as follows:

For mild to moderate asthma: 50µg to 200µg twice daily
For more severe asthma: doses up to 400µg twice daily
Maximum recommended daily dose: 800µg
In children aged five years and over the recommended dose of QVAR is 50µg twice daily.

QVAR must be used on a regular basis even when patients are asymptomatic. When patient's symptoms remain satisfactorily controlled the dose of QVAR can be gradually reduced to the minimum effective dose to maintain control.

Comparative clinical studies show that asthma patients achieve equivalent pulmonary function and control of symptoms with QVAR at lower total daily doses than CFC-BDP inhalers. These studies demonstrate clinical equivalence between CFC-BDP and QVAR inhalers when given in a dose ratio of 2.5 to 1.

Transferring Patients from a CFC-BDP Inhaler to QVAR:

Step 1 - Consider the dose of CFC-BDP appropriate to the patients' current condition. Symptomatic patients may require an increased dose of CFC-BDP and this increased dose should be considered in transferring patients to QVAR.

Table with 2 columns: Daily Dose of Beclomethasone Dipropionate (µg) and CFC-BDP. Rows include 200-250, 300, 400-500, 600-750, 800-1000, 1200-1500, 1600-2000.

SPECIAL PATIENT GROUPS

Elderly and Patients with Hepatic or Renal Impairment No special dosage recommendations are made.

Patients Not Receiving Systemic Corticosteroids For patients who are inadequately controlled with bronchodilators and who are not receiving systemic corticosteroids, it is recommended that they continue to use a bronchodilator when treatment with QVAR commences.

Respiratory System Disorders For patients who are inadequately controlled with bronchodilators and who are not receiving systemic corticosteroids, it is recommended that they continue to use a bronchodilator when treatment with QVAR commences.

Presentations QVAR 50µg Autohaler delivers 50µg of beclomethasone dipropionate per inhalation. QVAR 100µg Autohaler delivers 100µg of beclomethasone dipropionate per inhalation.

changes in the lungs. Continuation of treatment with QVAR usually maintains the improvement achieved with the oral steroid while it is being withdrawn gradually. Exacerbation of asthma caused by infection is usually controlled by appropriate antibiotic treatment and, if necessary, by increasing the dose of QVAR.

Each 200 dose canister provides 200 inhalations.

STORAGE

Store below 30°C. Avoid storage in direct sunlight or heat. Protect from frost.

MANUFACTURER

Kindeva Drug Delivery Limited
Derby Road, Loughborough LE11 5SF,
United Kingdom.

Revision date: Jan 2021

Withdrawal of systemic steroids should be gradual, starting about seven days after the introduction of QVAR therapy.

Some patients feel unwell experiencing aches and pains, tiredness and even depression during the withdrawal phase despite maintenance or even improvement of respiratory function.

Most patients can be successfully transferred to inhaled steroids with maintenance of good respiratory function, but special care is necessary for the first months after the transfer until the hypothalamic-pituitary-adrenal (HPA) system has sufficiently recovered.

Discontinuation of systemic steroids may cause exacerbation of allergic diseases such as atopic eczema and rhinitis previously controlled by the systemic drug.

OVERDOSAGE The harmful effect that follows inhalation of large amounts of the drug over a short time period is suppression of HPA function.

If excessive doses of beclomethasone dipropionate were taken over a prolonged period a degree of atrophy of the adrenal cortex could occur in addition to HPA suppression.

PRESENTATION QVAR 50µg Autohaler delivers 50µg of beclomethasone dipropionate per inhalation. QVAR 100µg Autohaler delivers 100µg of beclomethasone dipropionate per inhalation.

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Submission artwork template for inova pharmaceuticals. Includes job details (Job No. JB-02383, UIC A4381, SKU 00000), product name (A4381_NOT MARKETING QVAR AUTOHALER 200D), and technical specifications (Dieline Ref, EMO, Printer, File Name, Colour, Guide).

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