

**IRISH MEDICINES BOARD ACTS 1995 AND 2006**

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

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

**PPA1328/105/002**

Case No: 2061481

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

**B & S Healthcare**

**Unit 4, Bradfield Road, Ruislip, Middlesex, HA4 0NU, United Kingdom**

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

**Zantac 300mg Film-Coated Tablets**

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 **19/06/2009**.

Signed on behalf of the Irish Medicines Board this

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A person authorised in that behalf by the said Board.

## Part II

### Summary of Product Characteristics

#### 1 NAME OF THE MEDICINAL PRODUCT

Zantac 300mg Film-Coated Tablets

#### 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet contains 300mg ranitidine (as hydrochloride).

For full list of excipients, see section 6.1.

#### 3 PHARMACEUTICAL FORM

Film-coated Tablet.

*Product imported from the UK:*

White, capsule-shaped tablets with 'GX EC3' on one side and plain on the other side.

#### 4 CLINICAL PARTICULARS

##### 4.1 Therapeutic Indications

In the treatment of duodenal ulcer and benign gastric ulcer including that associated with non-steroidal anti-inflammatory agents. Prevention of non-steroidal anti-inflammatory drug (including aspirin) associated duodenal ulcers, especially in patients with a history of peptic ulcer disease. Zantac Tablets are also indicated for treatment of post-operative ulcer, reflux oesophagitis, Zollinger-Ellison syndrome and other conditions where reduction of gastric acid secretion is likely to be beneficial.

##### 4.2 Posology and method of administration

*Adults:*

The usual initial dosage is 150mg bd or 300mg nocte. This may be increased to ranitidine 300mg twice daily without an increased incidence of unwanted effects. Subsequently a maintenance dose of 150mg nocte may be used. Smoking is associated with a higher rate of ulcer relapse, and such patients should be advised to stop smoking. In those who fail to comply with such advice, a dose of 300mg at night provides additional therapeutic benefit over the standard dose.

In most cases of duodenal ulcer, benign gastric ulcer and post operative ulcer, healing occurs within 4 weeks. Healing usually occurs after a further 4 weeks in those not fully healed after the initial 4 weeks. In ulcers following non-steroidal anti-inflammatory drug therapy, 8 - 12 weeks treatment may be necessary. For the prevention of non-steroidal anti-inflammatory drug associated duodenal ulcers ranitidine 150mg bd may be given concomitantly with non-steroidal anti-inflammatory drug therapy.

In the management of reflux oesophagitis the usual course of treatment is either 150mg twice daily or 300mg at night administered for up to a period of 8, or if necessary 12 weeks.

In patients with moderate to severe oesophagitis the dosage may be increased to 150mg four times daily, alternatively 300mg twice a day, if necessary.

In keeping with the recommended clinical practice it is advisable that patients on long-term maintenance therapy receive regular routine assessment by their practitioners.

In patients with Zollinger-Ellison syndrome the starting dose is 150mg thrice daily, increased as necessary up to a maximum of 6 grams daily.

In the prophylaxis of haemorrhage from stress ulceration in seriously ill patients or the prophylaxis of recurrent haemorrhage in patients bleeding from peptic ulceration, treatment with Zantac 150mg twice daily may be substituted for Zantac Injection once oral feeding commences in patients considered to be still at risk from these conditions.

In obstetric patients an oral dose of 150mg may be given at commencement of labour, followed by 150mg at 6 hourly intervals. It is recommended that in addition, a non-particulate antacid (eg sodium citrate) should be given prior to induction of anaesthesia in any patient requiring emergency general anaesthesia.

#### *Children:*

The recommended oral dose for the treatment of peptic ulcer in children is 2mg/kg to 4mg/kg twice daily to a maximum of 300mg ranitidine per day.

#### *Renal Insufficiency:*

In patients with a creatinine clearance < 50ml/min the usual dose is 150mg nightly. In patients on dialysis, dosage should be given on completion of dialysis.

### **4.3 Contraindications**

Use in patient's known to have hypersensitivity to any component of the preparation.

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

Rare clinical reports suggest that ranitidine may precipitate acute porphyric attacks. Ranitidine should therefore be avoided in patients with a history of acute porphyria.

Before initiation of ranitidine treatment for any gastric ulceration, malignancy should be excluded by endoscopy and biopsy if possible. Treatment may mask the symptoms of malignancy, delaying diagnosis.

Ranitidine is excreted via the kidney and so plasma levels of the drug are increased in patients with severe renal impairment, adjust dosage as detailed under section 4.2 above.

Regular supervision of patients who are taking non-steroidal anti-inflammatory drugs concomitantly with ranitidine is recommended, especially in the elderly and in those with a history of peptic ulcer.

In keeping with the recommended clinical practice it is advisable that patients on long-term maintenance therapy receive regular routine assessment by their practitioner.

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

Ranitidine, at blood levels produced by standard recommended doses, does not inhibit the hepatic cytochrome P<sub>450</sub>-linked mixed function oxygenase system. Accordingly, ranitidine in the usual therapeutic dose does not potentiate the actions of drugs which are inactivated by this enzyme; these include diazepam, lignocaine, phenytoin, propranolol, theophylline and warfarin.

### **4.6 Pregnancy and lactation**

Ranitidine should not be administered during pregnancy or lactation unless considered essential by the physician. Ranitidine crosses the placenta and has been detected in breast milk.

## 4.7 Effects on ability to drive and use machines

Not applicable.

## 4.8 Undesirable effects

*The following convention has been utilised for the classification of undesirable effects: very common ( $\geq 1/10$ ), common ( $\geq 1/100$ ,  $< 1/10$ ), uncommon ( $\geq 1/1000$ ,  $< 1/100$ ), rare ( $\geq 1/10,000$ ,  $< 1/1000$ ), very rare ( $< 1/10,000$ ).*

*Adverse event frequencies have been estimated from spontaneous reports from post-marketing data.*

### *Blood & Lymphatic System Disorders*

Very Rare: Blood count changes (leucopenia, thrombocytopenia). These are usually reversible. Agranulocytosis or pancytopenia, sometimes with marrow hypoplasia or marrow aplasia.

### *Immune System Disorders*

Rare: Hypersensitivity reactions (urticaria, angioneurotic oedema, fever, bronchospasm, hypotension and chest pain).

Very Rare: Anaphylactic shock

These events have been reported after a single dose.

### *Psychiatric Disorders*

Very Rare: Reversible mental confusion, depression and hallucinations.

These have been reported predominantly in severely ill and elderly patients.

### *Nervous System Disorders*

Very Rare: Headache (sometimes severe), dizziness and reversible involuntary movement disorders.

### *Eye Disorders*

Very Rare: Reversible blurred vision.

There have been reports of blurred vision, which is suggestive of a change in accommodation.

### *Cardiac Disorders*

Very Rare: As with other H<sub>2</sub> receptor antagonists bradycardia and A-V Block.

### *Vascular Disorders*

Very Rare: Vasculitis.

### *Gastrointestinal Disorders*

Very Rare: Acute pancreatitis. Diarrhoea.

### *Hepatobiliary Disorders*

Rare: Transient and reversible changes in liver function tests.

Very Rare Hepatitis (hepatocellular, hepatocanalicular or mixed) with or without jaundice, these were usually reversible.

### *Skin and Subcutaneous Tissue Disorders*

Rare: Skin Rash.

Very Rare: Erythema multiforme, alopecia.

### *Musculoskeletal and Connective Tissue Disorders*

Very Rare: Musculoskeletal symptoms such as arthralgia and myalgia.

### *Renal and Urinary Disorders*

Very rare: Acute interstitial nephritis.

*Reproductive System and Breast Disorders*

Very Rare: Reversible impotence. Breast symptoms in men.

**4.9 Overdose**

Ranitidine is very specific in action and no particular problems are expected following overdosage with the drug. Symptomatic and supportive therapy should be given as appropriate. If need be, the drug may be removed from the plasma by haemodialysis.

**5 PHARMACOLOGICAL PROPERTIES****5.1 Pharmacodynamic properties**

Zantac is a specific, rapidly acting histamine H<sub>2</sub>-antagonist. It inhibits basal and stimulated secretion of gastric acid, reducing both the volume and the acid and pepsin content of the secretion. Zantac has a relatively long duration of action and so a single 150mg dose effectively suppresses gastric acid secretion for twelve hours.

Although no clear casual link has been established, a large epidemiological study showed an increased risk of developing community acquired pneumonia in current users of H<sub>2</sub> receptor antagonists versus those who had stopped treatment, with an observed adjusted relative risk increase of 1.63 (95% CI, 1.07 – 2.48). Therefore, in patients with conditions predisposing to the development of pneumonia, such as chronic lung disease, diabetes, or the immunocompromised, there may be an increased risk of developing community acquired pneumonia.

In patients such as the elderly, persons with chronic lung disease, diabetes or the immunocompromised, there may be an increased risk of developing community acquired pneumonia. A large epidemiological study showed an increased risk of developing community acquired pneumonia in current users of H<sub>2</sub> receptor antagonists versus those who had stopped treatment, with an observed adjusted relative risk of 4.63 (95% CI, 1.07-2.48).

**5.2 Pharmacokinetic properties**

The bioavailability of ranitidine is consistently about 50%. Peak concentrations in plasma, normally in the range 300-550ng/ml, occur 2-3 hours after oral administration of a 150mg dose. Concentrations of ranitidine in plasma are proportional to dose up to and including 300mg.

Ranitidine is not extensively metabolised. Elimination of the drug is primarily by tubular secretion. The elimination half-life is 2-3 hours.

In balance studies with 150mg <sup>3</sup>H-ranitidine 93% of an intravenous dose was excreted in urine and 5% in faeces; 60-70% of an oral dose was excreted in urine and 26% in faeces. Analysis of urine excreted in the first 24 hours after dosing showed that 70% of the intravenous dose and 35% of the oral dose were eliminated unchanged. The metabolism of ranitidine is similar after both oral and intravenous dosing; about 6% of the dose being excreted in urine as the N-oxide, 2% as the S-oxide, 2% as desmethylranitidine and 1 - 2% as the furoic acid analogue.

**5.3 Preclinical safety data**

Extensive studies have been carried out in animals. The pharmacology of ranitidine hydrochloride shows it to be a surmountable H<sub>2</sub> receptor antagonist, which produces an inhibition of gastric acid secretion. Extensive toxicological investigations have been conducted which predicted a very safe profile for clinical use. This safety has since been confirmed by extensive use in patients for many years.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Microcrystalline cellulose (E460)  
Croscarmellose sodium  
Magnesium stearate  
Hypromellose (E464)  
Titanium dioxide (E171)  
Triacetin

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf Life**

The shelf-life expiry date of this product shall be the date shown on the container and outer package of the product on the market in the country of origin.

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

Do not store above 30°C.

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

Blister strips in an overlabelled outer carton, containing 30 tablets.

### **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**

No special requirements.

## **7 Parallel Product Authorisation Holder**

B&S Healthcare  
Unit 4  
Bradfield Road  
Ruislip  
Middlesex  
HA4 0NU

## **8 Parallel Product Authorisation Number**

PPA 1328/105/2

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

Date of first authorisation: 19th June 2009

## **10 DATE OF REVISION OF THE TEXT**