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SUMMARY OF PRODUCT CHARECTERISTICS OF

BIKATAB (BICALUTAMIDE TABLETS BP 50mg)

1. Name of the medicinal product:

Bikatab (Bicalutamide Tablets BP 50mg)

2. Qualitative and quantitative composition

Each film-coated tablet contains:

Bicalutamide BP 50 mg

Sr. No.	Ingredients	Specification	Qty / Tablet	Purpose of use
110.	Dry mixing:		(mg)	
1.	Bicalutamide	BP	50.000	Active
2.	Lactose Monohydrate**(200#)	BP	62.700	Binder
3.	Povidone (K-25)	BP	5.000	Binder
4.	Sodium Starch Glycolate (Type A)	BP	3.750	Disintegrant
	Granulating vehicle:			
5.	Purified Water #	USP	15.000	Aqueous Solvent
	Pre-Lubrication:			
6.	Sodium Starch Glycolate (Type A)	BP	3.750	Disintegrant
	Lubrication:			
7.	Magnesium Stearate	BP	1.500	Lubricant
Total Uncoated tablet weight:			126.700	
	Coating: \$			
8.	Opadry OY-S-9622 White	IHS	3.000	Coating agent
9.	Purified Water #	USP	37.500	Aqueous Solvent
	Total coated table	t weight	129.700	

Note:

- ** Quantity of Lactose Monohydrate ** BP should adjust to the target weight the calculation shown in the Batch formula Worksheet.
- # Not present in finished Product.

^{*}Actual quantity of Bicalutamide* BP to be dispensed is based on actual % purity of Bicalutamide from the Batch formula worksheet as per subsequent calculation.



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\$ 10% overages included to compensate process loss on coating.

3. Pharmaceutical form

Film-coated tablet.

White, round, biconvex Film coated tablets

4. Clinical particular

4.1 Therapeutic indications:

Treatment of advanced prostate cancer in combination with luteinizing-hormone releasing hormone (LHRH) analogue therapy or surgical castration.

4.2 Posology and method of administration

Posology

Adult males including the elderly: one tablet (50 mg) once a day.

Treatment with Bicalutamide should be started at least 3 days before commencing treatment with an LHRH analogue, or at the same time as surgical castration.

Renal impairment: no dosage adjustment is necessary for patients with renal impairment.

Hepatic impairment: no dosage adjustment is necessary for patients with mild hepatic impairment. Increased accumulation may occur in patients with moderate to severe hepatic impairment

Paediatric population: Bicalutamide is contraindicated for use in children

4.3 Contraindications

Bicalutamide is contraindicated in females and children

Hypersensitivity to the active substance or to any of the excipients

Co-administration of terfenadine, astemizole or cisapride with Bicalutamide is contraindicated.



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4.4 Special warnings and precautions for use

Initiation of treatment should be under the direct supervision of a specialist.

Bicalutamide is extensively metabolized in the liver. Data suggests that its elimination may be slower in subjects with severe hepatic impairment and this could lead to increased accumulation of Bicalutamide. Therefore, Bicalutamide should be used with caution in patients with moderate to severe hepatic impairment. Periodic liver function testing should be considered due to the possibility of hepatic changes. The majority of changes are expected to occur within the first 6 months of Bicalutamide therapy. Severe hepatic changes and hepatic failure have been observed rarely with Bicalutamide, and fatal outcomes have been reported. Bicalutamide therapy should be discontinued if changes are severe.

A reduction in glucose tolerance has been observed in males receiving LHRH agonists. This may manifest as diabetes or loss of glycaemic control in those with pre-existing diabetes. Consideration should therefore be given to monitoring blood glucose in patients receiving Bicalutamide in combination with LHRH agonists.

Bicalutamide has been shown to inhibit cytochrome P450 (CYP3A4), as such caution should be exercised when co-administered with drugs metabolised predominantly by CYP3A4. Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucosegalactose malabsorption should not take this medicine.

Androgen deprivation therapy may prolong the QT interval.

In patients with a history of or risk factors for QT prolongation and in patients receiving concomitant medicinal products that might prolong the QT interval physicians should assess the benefit risk ratio including the potential for Torsade de pointes prior to initiating Casodex.

Antiandrogen therapy may cause morphological changes in spermatozoa. Although the effect of bicalutamide on sperm morphology has not been evaluated and no such changes have been



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reported for patients who received Casodex, patients and/or their partners should follow adequate contraception during and for 130 days after Casodex therapy.

Potentiation of coumarin anticoagulant effects have been reported in patients receiving concomitant Casodex therapy, which may result in increased Prothrombin Time (PT) and International Normalised Ratio (INR). Some cases have been associated with risk of bleeding. Close monitoring of PT/INR is advised and anticoagulant dose adjustment should be considered.

4.5 Interaction with other medicinal products and other forms of interaction

Effects of esomeprazole on the pharmacokinetics of other medicinal products

There is no evidence of any pharmacodynamic or pharmacokinetic interactions between Bicalutamide and LHRH analogues.

In vitro studies have shown that R-bicalutamide is an inhibitor of CYP 3A4, with lesser inhibitory effects on CYP 2C9, 2C19 and 2D6 activity.

Although clinical studies using antipyrine as a marker of cytochrome P450 (CYP) activity showed no evidence of a drug interaction potential with Bicalutamide, mean midazolam exposure (AUC) was increased by up to 80%, after co-administration of Bicalutamide for 28 days. For drugs with a narrow therapeutic index such an increase could be of relevance. As such, concomitant use of terfenadine, astemizole and cisapride is contraindicated and caution should be exercised with the co-administration of Bicalutamide with compounds such as ciclosporin and calcium channel blockers. Dosage reduction may be required for these drugs particularly if there is evidence of enhanced or adverse drug effect. For ciclosporin, it is recommended that plasma concentrations and clinical condition are closely monitored following initiation or cessation of Bicalutamide therapy.

Caution should be exercised when prescribing Bicalutamide with other drugs which may inhibit drug oxidation e.g. cimetidine and ketoconazole. In theory, this could result in increased plasma concentrations of Bicalutamide which theoretically could lead to an increase in side effects.



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In vitro studies have shown that bicalutamide can displace the coumarin anticoagulant, warfarin, from its protein binding sites. There have been reports of increased effect of warfarin and other coumarin anticoagulants when co-administered with Bicalutamide. It is therefore recommended that if Bicalutamide is administered in patients who are concomitantly receiving coumarin anticoagulants, PT/INR should be closely monitored and adjustments of anticoagulant dose considered.

Since androgen deprivation treatment may prolong the QT interval, the concomitant use of Bicalutamide with medicinal products known to prolong the QT interval or medicinal products able to induce Torsade de pointes such as class IA (e.g. quinidine, disopyramide) or class III (e.g. amiodarone, sotalol, dofetilide, ibutilide) antiarrhythmic medicinal products, methadone, moxifloxacin, antipsychotics, etc. should be carefully evaluated.

Paediatric population

Interaction studies have only been performed in adults.

4.6 Fertility, pregnancy and lactation Pregnancy

Bicalutamide is contraindicated in females and must not be given to pregnant women.

Breast-feeding

Bicalutamide is contraindicated during breast-feeding.

Fertility

Reversible impairment of male fertility has been observed in animal studies. A period of subfertility or infertility should be assumed in man.



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4.7 Effects on ability to drive and use machines

Bicalutamide is unlikely to impair the ability of patients to drive or operate machinery. However, it should be noted that occasionally somnolence may occur. Any affected patients should exercise caution.

4.8 Undesirable effects

In this section, undesirable effects are defined as follows: Very common ($\geq 1/10$); common ($\geq 1/100$ to < 1/10); uncommon ($\geq 1/1,000$ to $\leq 1/100$); rare ($\geq 1/10,000$ to $\leq 1/1,000$); very rare ($\leq 1/10,000$); not known (cannot be estimated from the available data).

Table 1 Frequency of Adverse Reactions

System Organ Class	Frequency	Event	
Blood and lymphatic system disorders	Very common	Anaemia	
Immune system disorders	Uncommon	Hypersensitivity, angioedema and urticaria	
Metabolism and nutrition disorders	Common	Decreased appetite	
Psychiatric disorders	Common Decreased libido		
		depression	
Nervous system disorders	Very common	Dizziness	
	Common	Somnolence	
Cardiac disorders	Common	Myocardial infarction (fatal outcomes have been reported)4, cardiac failure4	
	Not known	QT prolongation	
Vascular disorders	Very common	Hot flush	
Respiratory, thoracic and	Uncommon	Interstitial lung disease5 (fatal	



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	outcomes have been reported).	
Very common	Abdominal pain, constipation nausea	
Common	Dyspepsia, flatulence	
Common	Hepatotoxicity, jaundice, hypertransaminasaemia1	
Rare	Hepatic failure2 (fatal outcomes have been reported).	
Common	Alopecia, hirsutism/hair re-growth dry skin, pruritus, rash	
Rare	Photosensitivity reaction	
Very common	Haematuria	
Very common	Gynaecomastia and breast tenderness3	
Common	Erectile dysfunction	
Very common	Asthenia oedema	
Common	Chest pain	
Common	Weight increased	
	Common Common Rare Common Very common Common Very common Common Common	

- 1. Hepatic changes are rarely severe and were frequently transient, resolving or improving with continued therapy or following cessation of therapy.
- 2. Listed as an adverse drug reaction following review of post-marketed data. Frequency has been determined from the incidence of reported adverse events of hepatic failure in patients receiving treatment in the open-label Casodex arm of the 150 mg EPC studies.
- 3. May be reduced by concomitant castration.



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4. Observed in a pharmaco-epidemiology study of LHRH agonists and anti-androgens used in the

treatment of prostate cancer. The risk appeared to be increased when Casodex 50 mg was used in

combination with LHRH agonists, but no increase in risk was evident when Casodex 150 mg was

used as a monotherapy to treat prostate cancer.

5. Listed as an adverse drug reaction following review of post-marketed data. Frequency has been

determined from the incidence of reported adverse events of interstitial pneumonia in the

randomised treatment period of the 150 mg EPC studies.

Increased PT/INR: Accounts of coumarin anticoagulants interacting with Casodex have been

reported in post marketing surveillance

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.

4.9 Overdose

There is no human experience of overdosage. There is no specific antidote; treatment should be

symptomatic. Dialysis may not be helpful, since Bicalutamide is highly protein bound and is not

recovered unchanged in the urine. General supportive care, including frequent monitoring of vital

signs, is indicated.

5. Pharmacological properties

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Anti-androgens

ATC code: L02BB03

Mechanism of action

Bicalutamide is a non-steroidal ant androgen, devoid of other endocrine activity. It binds to

androgen receptors without activating gene expression, and thus inhibits the androgen stimulus.

Regression of prostatic tumours results from this inhibition. Clinically, discontinuation of

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Bicalutamide can result in antiandrogen withdrawal syndrome in a subset of patients. Bicalutamide is a racemate with its ant androgenic activity being almost exclusively in the (R)-enantiomer.

5.2 Pharmacokinetic properties

Absorption

Bicalutamide is well absorbed following oral administration. There is no evidence of any clinically relevant effect of food on bioavailability.

Distribution

Bicalutamide is highly protein bound (racemate 96% (R)-enantiomer >99%) and extensively metabolised (via oxidation and glucuronidation): Its metabolites are eliminated via the kidneys and bile in approximately equal proportions.

Biotranformation

The (S)-enantiomer is rapidly cleared relative to the (R)-enantiomer, the latter having a plasma elimination half-life of about 1 week. On daily administration of Bicalutamide, the (R)-enantiomer accumulates about 10 fold in plasma as a consequence of its long half-life. Steady state plasma concentrations of the (R)-enantiomer of approximately 9 microgram/ml are observed during daily administration of 50 mg doses of Bicalutamide. At steady state the predominantly active (R)-enantiomer accounts for 99% of the total circulating enantiomers.

Elimination

In a clinical study the mean concentration of R-bicalutamide in semen of men receiving Bicalutamide 150 mg was 4.9 microgram/ml. The amount of bicalutamide potentially delivered to a female partner during intercourse is low and by extrapolation possibly equates to approximately 0.3 microgram/kg. This is below that required to induce changes in offspring of laboratory animals.



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Special Populations

The pharmacokinetics of the (R)-enantiomer are unaffected by age, renal impairment or mild to moderate hepatic impairment. There is evidence that for subjects with severe hepatic impairment, the (R)-enantiomer is more slowly eliminate

6. Pharmaceutical particulars

6.1 List of excipients

Lactose Monohydrate** BP (200#)

Povidone BP (K-25)

Sodium Starch Glycolate BP (Type A)

Sodium Starch Glycolate BP (Type A)

Magnesium Stearate BP

Opadry OY-S-9622 White IHS

6.2 Incompatibilities Not applicable.

6.3 Shelf life

2 years

6.4 Special precautions for storage

Store below 30°C in the original package in order to protect from moisture.

6.5 Nature and contents of container

Clear PVC-Alu blister pack:

2 x 14 Tablets

6.6 Special precautions for disposal and other handling

No special requirements.



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7. Marketing authorisation holder

ANNYGOD PHARMA. CO. LTD D271 OFUOBI LINE, BRIDGE HEAD MARKET, ONITSHA, ANAMBRA STATE

- NIGERIA.
- 8. Marketing authorisation number(s): NA
- 9. Date of first authorisation/renewal of the authorisation: NA
- 10. Date of revision of the text

Balna

Module 1:

1.3.3 Package Insert (also known as patient Information PIL)

Enclosed

Bicalstamide 50 mg (Bicalstamide Film Coated Tablets 8P Somg)

Fig. 20 mills and delay the form of the coated Tablets 8P Somg)

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