

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use BICALUTAMIDE safely and effectively. See full prescribing information for BICALUTAMIDE tablet, film coated for oral use.

- INDICATIONS AND USAGE**
- Bicalutamide tablets 50 mg daily are an androgen receptor inhibitor indicated for use in combination therapy with a luteinizing hormone-releasing hormone (LHRH) analog in the treatment of Stage D2 metastatic carcinoma of the prostate.
 - Bicalutamide tablets 150 mg daily are not approved for use alone or with other treatments.
- DOSEAGE AND ADMINISTRATION**
- The recommended dose for bicalutamide therapy in combination with an LHRH analog is one 50 mg tablet once daily (morning or evening), with or without food. It is recommended that bicalutamide be taken at the same time each day. Treatment with bicalutamide should be started on the same time as the LHRH analog.
- CONTRAINDICATIONS**
- Hypersensitivity (4.1)
 - Women (4.2)
 - Pregnancy (4.3 and 8.1)
- WARNINGS AND PRECAUTIONS**
- Severe hepatic changes and hepatic failure have been observed rarely. Monitor serum transaminase levels prior to starting treatment with bicalutamide or regular intervals for the first four months of treatment and periodically thereafter, and for symptoms or signs suggestive of hepatic dysfunction. Use bicalutamide with caution in patients with hepatic impairment. (5.1)
 - Gonorrhea and breast pain have been reported during treatment with bicalutamide 150 mg when used as a single agent. (5.2)
 - Bicalutamide is used in combination with LHRH analogs. LHRH analogs have been shown to cause a reduction in glucose tolerance in insulin-dependent diabetes mellitus. Monitor blood glucose in patients receiving bicalutamide in combination with LHRH analogs. (5.3)
 - Monitor Prostate Specific Antigen (PSA) increases. Evaluate for clinical progression if PSA increases. (5.4)

- ADVERSE REACTIONS**
- In clinical trials, the most frequent adverse reaction was hot flashes. Other adverse reactions that occurred in more than 10% of patients receiving bicalutamide plus an LHRH-A were hot flashes, pain (including general, back, neck, muscle, and joint), dizziness, constipation, and anemia. (6.1)
- TO REPORT SUSPECTED ADVERSE REACTIONS**, contact SANDOZ Inc. at 1-800-477-4774 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
- DRUG INTERACTIONS**
- Bicalutamide is an inhibitor of CYP 3A4. Therefore, caution should be used when bicalutamide is co-administered with CYP 3A4 substrates. (7)
- Prothrombin times should be closely monitored in patients already receiving coumatin anticoagulants who are started on bicalutamide. (7)
- USE IN SPECIFIC POPULATIONS**
- Pediatric patients:** Labeling describing pediatric clinical studies for bicalutamide is approved for AstraZeneca Pharmaceuticals LP's bicalutamide tablet. However, due to AstraZeneca Pharmaceuticals LP's marketing exclusivity rights, a description of these clinical studies is not approved for this bicalutamide labeling. (8)

- See 17 for PATIENT COUNSELING INFORMATION** contained in Patient Labeling Provided
- FULL PRESCRIBING INFORMATION: CONTENTS**
- INDICATIONS AND USAGE
 - DOSEAGE AND ADMINISTRATION
 - DOSEAGE FORMS AND STRENGTHS
 - CONTRAINDICATIONS
 - WARNINGS AND PRECAUTIONS
 - ADVERSE REACTIONS
 - DRUG INTERACTIONS
 - USE IN SPECIFIC POPULATIONS
 - DESCRIPTION
 - CLINICAL PHARMACOLOGY
 - HOW SUPPLIED/STORAGE AND HANDLING
 - PATIENT COUNSELING INFORMATION

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FULL PRESCRIBING INFORMATION

1. INDICATIONS AND USAGE

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2. DOSEAGE AND ADMINISTRATION

The recommended dose for bicalutamide therapy in combination with an LHRH analog is one 50 mg tablet once daily (morning or evening), with or without food. It is recommended that bicalutamide be taken at the same time each day. Treatment with bicalutamide should be started on the same time as the LHRH analog.

3. DOSEAGE FORMS AND STRENGTHS

Bicalutamide 50 mg tablets for oral administration.

4. CONTRAINDICATIONS

4.1. Hypersensitivity: Bicalutamide is contraindicated in a patient who has shown a hypersensitivity reaction to the drug or any of the tablet's components. Hypersensitivity reactions include angioedema and urticaria have been reported (see **ADVERSE REACTIONS** (6.2)).

4.2. Women: Bicalutamide has no indication for women and should not be used in this population.

4.3. Pregnancy: Bicalutamide may cause fetal harm when administered to a pregnant woman. Bicalutamide is contraindicated in women, including those who are or may become pregnant. There are no studies in pregnant women using bicalutamide. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential risks to the fetus (see **USE IN SPECIFIC POPULATIONS** (8.1)).

5. WARNINGS AND PRECAUTIONS

5.1. Hepatitis: Bicalutamide may cause liver injury that has been reported post-marketing or association with the use of bicalutamide. Hepatitis in these reports generally occurred within the first three to four months of treatment. Hepatitis or marked increases in liver enzymes had to be discontinued or discontinued in approximately 1% of bicalutamide patients in controlled clinical trials.

5.2. Gonorrhea and Breast Pain: Gonorrhea and breast pain have been reported during treatment with bicalutamide 150 mg when used as a single agent. (5.2)

5.3. Hypersensitivity: Bicalutamide is used in combination with LHRH analogs. LHRH analogs have been shown to cause a reduction in glucose tolerance in insulin-dependent diabetes mellitus. Monitor blood glucose in patients receiving bicalutamide in combination with LHRH analogs. (5.3)

5.4. Laboratory Tests: Regular assessments of serum Prostate Specific Antigen (PSA) may be helpful in monitoring the patient's response. If PSA levels rise during bicalutamide therapy, the patient should be evaluated for clinical progression. For patients who have objective progression of disease together with an elevated PSA, a treatment-free period of anti-androgens, while continuing the LHRH analog, may be considered.

6. ADVERSE REACTIONS

Bicalutamide clinical trials are conducted under very strict conditions. Adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

6.1. Clinical Trial Experience: In patients with advanced prostate cancer treated with bicalutamide in combination with an LHRH analog, the most frequent adverse reaction was hot flashes (25%).

6.2. Postmarketing Experience: In the multicenter, double-blind, controlled trial comparing bicalutamide 50 mg once daily with bicalutamide 250 mg three times a day, each in combination with an LHRH analog, the following adverse reactions with an incidence of 5% or greater, regardless of causality, have been reported:

Body System	Adverse Reaction	Treatment Group Number of Patients (%)	Placebo Group Number of Patients (%)
Body System	Hot Flashes	142 (50)	127 (61)
	Back Pain	105 (28)	105 (28)
	Asthma	89 (22)	87 (21)
	Pain	85 (21)	70 (17)
	Infection	71 (18)	57 (14)
	Abdominal Pain	46 (11)	46 (11)
	Chest Pain	34 (8)	34 (8)
	Headache	29 (7)	27 (7)
	Flu Syndrome	28 (7)	30 (7)
	Constipation	27 (7)	27 (7)
Metabolic and Nutritional	Increased Liver Enzyme Test*	30 (7)	48 (11)
	Dyspepsia	26 (6)	22 (5)
	Fatigue	26 (6)	22 (5)
	Anorexia	26 (6)	22 (5)
	Nausea	26 (6)	22 (5)
	Weight Loss	26 (6)	22 (5)
	Diarrhea	26 (6)	22 (5)
	Constipation	26 (6)	22 (5)
	Abnormal Laboratory Test Values:		
	Increased Liver Enzyme Test*	26 (6)	22 (5)

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Table 1. Incidence of Adverse Reactions (5% or Higher Treatment Group) Regardless of Causality

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6.7. Drug Interactions: Bicalutamide is an inhibitor of CYP 3A4. Therefore, caution should be used when bicalutamide is co-administered with CYP 3A4 substrates. (7)

Prothrombin times should be closely monitored in patients already receiving coumatin anticoagulants who are started on bicalutamide. (7)

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PATIENT INFORMATION
Bicalutamide Tablets

Read the Patient Information that comes with bicalutamide tablets before you start taking it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your healthcare provider about your medical condition or your treatment.

What are bicalutamide tablets?

Bicalutamide tablets is a prescription medicine called an androgen receptor inhibitor, used in combination with luteinizing hormone-releasing hormone (LHRH) medicines to treat stage D2 metastatic prostate cancer. It is not known if bicalutamide tablets is safe and effective in children.

Who should not take bicalutamide tablets?

- Do not take bicalutamide tablets if:
 - you are a woman.
 - you are allergic to any of the ingredients in bicalutamide tablets. See the end of this leaflet for a complete list of ingredients.
 - diets

What should I tell my healthcare provider before taking bicalutamide tablets?

Before you take bicalutamide tablets, tell your healthcare provider about all your medical conditions including if you:

- are a woman (see who should not take bicalutamide tablets)
- are pregnant or think you may be pregnant
- have liver problems
- take a medicine to thin your blood. Ask your healthcare provider or pharmacist if you are not sure if your medicine is a blood thinner.
- have diabetes (poor blood sugar control) has been reported in people taking bicalutamide tablets in combination with LHRH medicines)

How should I take bicalutamide tablets?

- Take bicalutamide tablets exactly as prescribed.
- Take bicalutamide tablets at the same time every day.
- Your treatment with bicalutamide tablets should start at the same time as your treatment with the LHRH medicine.
- If you miss a dose do not take an extra dose. Take the next dose at your regular time. Do not take 2 doses at the same time.
- Bicalutamide tablets can be taken with or without food.
- If you take too much bicalutamide tablets, call your healthcare provider or Poison Control Center or go to the nearest hospital emergency room right away.
- Do not stop taking bicalutamide tablets unless your healthcare provider tells you.
- Your healthcare provider may do blood tests while you take bicalutamide tablets.

What are the possible side effects of bicalutamide tablets?

Bicalutamide tablets can cause serious side effects.

- Hot flashes:** Hot flashes, or short periods of feeling warm and sweating, may affect your skin and eyes (jaundiced), dark urine, right upper stomach pain, nausea, vomiting, tiredness, loss of appetite, chills, fever, whole body pain. These may be symptoms of liver damage.
- Poor blood sugar control:** Poor blood sugar control can happen in people who take bicalutamide tablets in combination with LHRH medicines.
- Enlargement of breast (gynecomastia) and breast pain:** The most common side effects of bicalutamide tablets include: hot flashes, or short periods of feeling warm and sweating, whole body pain in your back, pelvis, stomach
- feeling weak**
- constipation**
- infection**
- nausea**
- swelling in your ankles, legs or feet**
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(Continued)

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of bicalutamide tablets. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store bicalutamide tablets?

Store at 20°-25°C (68°-77°F) (see USP Controlled Room Temperature).

KEEP THIS AND ALL DRUGS OUT OF THE REACH OF CHILDREN.

General information about the safe and effective use of bicalutamide tablets.

Medicines are sometimes prescribed for purposes other than those listed in a patient information leaflet. Do not use bicalutamide tablets for a condition for which it was not prescribed. Do not give bicalutamide tablets to other people, even if they have the same symptoms that you have. It may harm them. This patient information leaflet summarizes the most important information about bicalutamide tablets. If you would like more information about bicalutamide tablets talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about bicalutamide tablets that is written for health professionals. For more information call 1-800-525-8747.

What are the ingredients in bicalutamide tablets?

Active ingredients include: bicalutamide. Inactive ingredients include: corn starch, hydroxypropylcellulose, lactose monohydrate, magnesium stearate, polyethylene glycol, polyorbate 80, povidone, sodium starch glycolate, and titanium dioxide.

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Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of bicalutamide tablets. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store bicalutamide tablets?

Store at 20°-25°C (68°-77°F) (see USP Controlled Room Temperature).

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get sensitive and respond to treatment that contracts the effect of androgen and/or removes the source of androgen.

When bicalutamide is combined with luteinizing hormone releasing hormone (LHRH) analog therapy, the suppression of serum testosterone induced by the LHRH analog is not affected. However, in clinical trials with bicalutamide as a single agent for prostate cancer, rises in serum testosterone and estradiol have been noted.

In a subset of patients who have been treated with bicalutamide and an LHRH agonist, and who discontinue bicalutamide therapy due to progressive advanced prostate cancer, a reduction in Prostate Specific Antigen (PSA) and clinical improvement (antihandwriting withdrawal phenomenon) may be observed.

12. Pharmacokinetics

Absorption: Bicalutamide is well-absorbed following oral administration, although the absolute bioavailability is unknown. Co-administration of bicalutamide with food has no clinically significant effect on rate or extent of absorption.

Distribution: Bicalutamide is a highly protein-bound (96%) (see **DRUG INTERACTIONS (7)**).

Metabolism/Excretion: Bicalutamide undergoes stereospecific metabolism. The S (active) isomer is metabolized primarily by glucuronidation. The R (inactive) isomer also undergoes glucuronidation but is predominantly oxidized to an inactive metabolite followed by glucuronidation. Both the parent and metabolite glucuronides are eliminated in the urine and feces. The S-enantiomer is rapidly cleared relative to the R-enantiomer, with the R-enantiomer accounting for about 99% of total steady-state plasma levels.

Pharmacokinetics of the active isomer of bicalutamide in normal males and patients with prostate cancer are presented in Table 3.

Parameter	Mean	Standard Deviation
Normal Males (n=30)		
Apparent Oral Clearance (l/hour)	0.320	0.163
Simple Dose Peak Concentration (ng/ml)	0.768	0.178
Simple Dose Time to Peak Concentration (hours)	31.3	14.6
Half-life (days)	5.8	2.39
Patients with Prostate Cancer (n=48)		
CS ₅₀ (ng/ml)	8.939	3.364

CS₅₀ = Co-Mean Steady-State Concentration

13. NONCLINICAL TOXICOLOGY

13.1. Carcinogenesis, Mutagenesis, Impairment of Fertility

Two-year oral carcinogenicity studies were conducted in both male and female rats and mice at doses of 5, 15 or 75 mg/kg/day of bicalutamide. A variety of tumor target organ effects were identified and were attributed to the antiandrogenicity of bicalutamide, namely, testicular benign interstitial (Leydig) cell tumors in male rats at all dose levels (the steady-state plasma concentration with the 5 mg/kg/day dose is approximately 2/3 human therapeutic concentration) and dermal adenocarcinoma in female rats at 75 mg/kg/day (approximately 1/2 times the human therapeutic concentration). There is no evidence of Leydig cell hyperplasia in patients, androgenic tumors are not relevant to the indicated patient population.

A small increase in the incidence of hepatobiliary carcinomas in male mice given 75 mg/kg/day of bicalutamide (approximately 1/3 times human therapeutic concentration) and an increased incidence of benign thyroid follicular cell adenomas in rats given 5 mg/kg/day (approximately 2/3 human therapeutic concentration) were also noted. These neoplastic changes were progressive of non-neoplastic changes related to hepatic enzyme induction observed in animal toxicity studies. Enzyme induction has not been observed following bicalutamide administration in man. There were no neoplastic effects suggestive of genotoxic carcinogenesis.

A comprehensive battery of both *in vivo* and *in vitro* genotoxicity tests (mutagenesis assays, Ames, *in vitro* CHO/Hprt, *in vitro* lymphocyte cytogenetic, mouse micronucleus, and rat bone marrow cytogenetic tests) has demonstrated that bicalutamide does not have genotoxic activity.

Administration of bicalutamide may lead to inhibition of spermatogenesis. The long-term effects of bicalutamide on male fertility have not been studied.

In male rats dosed at 250 mg/kg/day (approximately 2 times human therapeutic concentration), the preclimax (mid) and time to successful mating were increased in the first pairing but no effects on fertility following successful mating were noted. These effects were reversed by 7 weeks after the end of an 11-week period of dosing.

No effects on female rats dosed at 10, 50 and 250 mg/kg/day (approximately 2/3, 1 and 2 times human therapeutic concentrations, respectively) or their female offspring were observed. Administration of bicalutamide to pregnant females resulted in feminization of the male offspring leading to hypoadrenalism at all dose levels. Affected male offspring were also impacted.

14. CLINICAL STUDIES

14.1. Bicalutamide tablets 50 mg Daily in Combination with an LHRH-A

In a multicenter, double-blind, controlled clinical trial, 613 patients with previously untreated advanced prostate cancer were randomized to receive bicalutamide 50 mg once daily (404 patients) or flutamide 250 mg (409 patients) three times a day in combination with LHRH analog therapy (goserelin acetate implant or medroxyprogesterone acetate depot).

In an analysis conducted after a median follow-up of 160 weeks were reached, 215 (52.7%) patients treated with bicalutamide-LHRH analog therapy and 235 (57.3%) patients treated with flutamide-LHRH analog therapy had died. There was no significant difference in survival between treatment groups (see **Figure 1**). The hazard ratio for time to death (survival) was 0.87 (95% confidence interval 0.72 to 1.05).

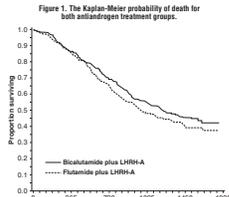


Figure 1. The Kaplan-Meier probability of death for both androgen treatment groups.

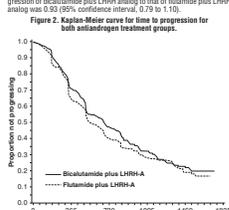


Figure 2. Kaplan-Meier curve for time to progression for both androgen treatment groups.

Quality of life was assessed with self-administered patient questionnaires on pain, social functioning, emotional well-being, vitality, activity limitation, bed disability, overall health, physical capacity, general symptoms, and treatment related symptoms. Assessment of the Quality of Life questionnaires did not indicate consistent significant differences between the two treatment groups.

14.2. Safety Data from Clinical Studies using Bicalutamide 150 mg

Bicalutamide 150 mg is not approved for use in older adults or with other treatments.

Two clinical multicenter, randomized, open-label trials comparing bicalutamide 150 mg daily monotherapy to castration were conducted in patients that had locally advanced (T3-4, N0, M0) or metastatic (M1) prostate cancer.

Monotherapy - M1 Group

Bicalutamide 150 mg daily is not approved for use in patients with M1 cancer of the prostate. Based on an interim analysis of the two trials for survival, the Data Safety Monitoring Board recommended that bicalutamide treatment be discontinued in the M1 patients because the risk of death was 25% (HR 1.25, 95% CI 0.87 to 1.71) higher in the bicalutamide group and in the smaller trial (N=140), the risk of death was 38% (HR 0.84, 95% CI 0.39 to 1.03) lower in the bicalutamide group.

In addition to the above two studies, there are three other on-going clinical studies that provide additional safety information for bicalutamide 150 mg, a dose that is not approved for use. These are three multicenter, randomized, double-blind, parallel group trials comparing bicalutamide 150 mg daily monotherapy (adjunct to previous therapy or under watchful waiting) with castration for overall time to disease progression. In a population of 613 patients with localized prostate cancer who are candidates for waiting. Data from a planned subgroup analysis of these trials in 1627 patients with localized prostate cancer who were under watchful waiting, revealed a trend toward decreased survival in the bicalutamide arm after a median follow-up of 7.4 years. There were 24 (2.7%) deaths in the bicalutamide treated patients versus 279 (22.2%) deaths in the castration treated patients (see **Table 16. HOW SUPPLIED/STORAGE AND HANDLING**).

16. HOW SUPPLIED/STORAGE AND HANDLING

Bicalutamide tablets, for oral administration, are available as:
 50 mg round, white, convex tablet code, debossed SC on one side and NDC 0781-5489-31 bottles of 90
 150 mg round, white, convex tablet code, debossed SC on one side and NDC 0781-5489-10 bottles of 1000
 150 mg round, white, convex tablet code, debossed SC on one side and NDC 0781-5489-10 bottles of 1000

16.1. Storage and Handling

Store at 20°-25°C (68°-77°F) (see USP Controlled Room Temperature). Dispense in a light, light-resistant container as defined in the USP.

17. PATIENT COUNSELING INFORMATION

Patients should be informed that therapy with bicalutamide tablets and the LHRH analog should be given at the same time and that they should not interrupt or stop taking these medications without consulting their physician.

During treatment with bicalutamide tablets, somnolence has been reported but these patients do not experience this symptom should observe caution when driving or operating machinery.

Patients should be informed that diabetes, or loss of glysemic control in patients with pre-existing diabetes has been reported during treatment

with LHRH agonists. Consideration should therefore be given to monitoring blood glucose in patients receiving bicalutamide tablets in combination with LHRH agonists.

PATIENT INFORMATION BICALUTAMIDE TABLETS

Read the Patient Information that comes with bicalutamide tablets before you start taking it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your healthcare provider about your medical condition or your treatment.

What is bicalutamide tablets?

Bicalutamide tablets is a prescription medicine called an androgen receptor inhibitor. Used in combination with luteinizing hormone-releasing hormone (LHRH) medicines to treat stage 2 metastatic prostate cancer. It is not known if bicalutamide tablets is safe and effective in children.

Who should not take bicalutamide tablets?

Do not take bicalutamide tablets if:

- you are allergic to any of the ingredients in bicalutamide tablets. See the end of this leaflet for a complete list of ingredients.

What should I tell my healthcare provider before taking bicalutamide tablets?

Before you take bicalutamide tablets, tell your healthcare provider about all your medical conditions including if you:

- are a woman (see who should not take bicalutamide tablets)
- have liver problems
- take a medicine for your blood sugar control that has been reported in people taking bicalutamide tablets in combination with LHRH medicines)

Tell your healthcare provider about all the medicines you take, including prescription and non-prescription medicines, vitamins and herbal supplements. Bicalutamide tablets and other medicines may affect each other causing side effects. Bicalutamide tablets may affect the way other medicines work, and other medicines may affect how bicalutamide tablets work.

Know the medicines you take. Keep a list of all your medicines with you to show your healthcare providers when you get a new medicine.

How should I take bicalutamide tablets?

- Take bicalutamide tablets exactly as prescribed.
- Take bicalutamide tablets at the same time every day.
- Your treatment with bicalutamide tablets should start at the same time as your treatment with the LHRH medicine.
- If you miss a dose do not take an extra dose, take the next dose at your regular time. Do not take 2 doses at the same time.
- Bicalutamide tablets can be taken with or without food.
- If you take too much bicalutamide tablets, call your healthcare provider or Poison Control Center or go to the nearest hospital emergency room right away.
- Do not stop taking bicalutamide tablets unless your healthcare provider tells you.
- Your healthcare provider may do blood tests while you take bicalutamide tablets.

Prostate cancer may get worse while taking bicalutamide tablets in combination with LHRH medicines. Regular monitoring of your prostate cancer with your healthcare provider is important to determine if your condition is getting worse.

What should I avoid while taking bicalutamide tablets?

While taking bicalutamide tablets, avoid operating machinery or other dangerous activities until you know how bicalutamide tablets affects you.

What are the possible side effects of bicalutamide tablets?

Bicalutamide tablets can cause serious side effects.

Get medical help right away, if you have:

- trouble breathing with or without fever. Some people who take bicalutamide tablets get an inflammation in the lungs called interstitial lung disease.

An allergic reaction. Symptoms of an allergic reaction include: itching of the eyes, nose, mouth, swelling of the face, lips, tongue, throat, or trouble swallowing.

• Numbness of the skin and eyes (conjunctivitis), dark urine, right upper stomach pain, nausea, vomiting, tenderness, loss of appetite, chills, fever, white body pain. These may be symptoms of liver damage.

• Poor blood sugar control can happen in people who take bicalutamide tablets in combination with LHRH medicines.

• enlargement of breast (gynecomastia) and breast pain

The most common side effects of bicalutamide tablets include:

- hot flashes, or short periods of feeling warm and sweating
- feeling weak
- feeling dizzy
- constipation
- muscle aches
- swelling in your ankles, legs or feet
- dizziness
- blood in your urine
- swelling from sleep to urinate at night
- a decrease in red blood cells (anemia)
- feeling dizzy

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

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