

Avoidart® 0.5 mg Dutasteride

Name of the Medicinal Product

Avoidart® 0.5 mg soft capsules.

Qualitative and Quantitative Composition

Each capsule contains 0.5 mg dutasteride.

Excipients with known effect

Each capsule contains lecithin (which may contain soya oil). For the full list of excipients, see section "List of excipients".

Pharmaceutical Form

Capsules, soft.

The capsules are opaque, yellow, oblong soft gelatin capsules imprinted with GX CEZ.

Clinical Particulars

Therapeutic Indications

Treatment of moderate to severe symptoms of benign prostatic hyperplasia (BPH). Reduction in the risk of acute urinary retention (AUR) and surgery in patients with moderate to severe symptoms of BPH.

For information on effects of treatment and patient populations studied in clinical trials please see section "Pharmacodynamic Properties".

Posology and Method of Administration

Avoidart can be administered alone or in combination with the alpha-blocker tamsulosin (0.4mg) (see sections "Special Warnings and Precautions for Use", "Undesirable Effects" and "Pharmacodynamic Properties"). Adults (including elderly):

The recommended dose of Avoidart is one capsule (0.5 mg) taken orally once a day. The capsules should be swallowed whole and not chewed or opened as contact with the capsule contents may result in irritation of the oropharyngeal mucosa. The capsules may be taken with or without food. Although an improvement may be observed at an early stage, it can take up to 6 months before a response to the treatment can be achieved. No dose adjustment is necessary in the elderly.

Renal Impairment

The effect of renal impairment on dutasteride pharmacokinetics has not been studied. No adjustment in dosage is indicated for patients with renal impairment (see section "Pharmacokinetic Properties").

Hepatic Impairment

The effect of hepatic impairment on dutasteride pharmacokinetics has not been studied so caution should be used in patients with mild to moderate hepatic impairment (see section "Special Warnings and Precautions for Use" and section "Pharmacokinetic Properties"). In patients with severe hepatic impairment, the use of dutasteride is contraindicated (see section "Contraindications").

Contraindications

Avoidart is contraindicated in:

- women and children and adolescents (see section "Pregnancy and Lactation").
- patients with hypersensitivity to dutasteride, other 5-alpha reductase inhibitors soya, peanut or any of the other excipients listed in section "List of excipients".
- patients with severe hepatic impairment.

Special Warnings and Precautions for Use

Combination therapy should be prescribed after careful benefit risk assessment due to the potential increased risk of adverse events (including cardiac failure) and after consideration of alternative treatment options including monotherapies (see section "Pharmacology and Method of Administration").

Cardiac failure:

In two 4-year clinical studies, the incidence of cardiac failure (a composite term of reported events, primarily cardiac failure and congestive cardiac failure) was higher among subjects taking the combination of Avoidart and an alpha blocker, primarily tamsulosin, than it was among subjects not taking the combination. In these two trials, the incidence of cardiac failure was low (<1%) and variable between the studies, (see section "Pharmacodynamic Properties").

Effects on prostate specific antigen (PSA) and prostate cancer detection:

Digital rectal examination, as well as other evaluations for prostate cancer, must be performed on patients prior to initiating therapy with Avoidart and periodically thereafter.

Serum prostate-specific antigen (PSA) concentration is an important component in the detection of prostate cancer.

Avoidart causes a decrease in mean serum PSA levels by approximately 50%, after 6 months of treatment.

Patients receiving Avoidart should have a new PSA baseline established after 6 months of treatment with Avoidart. It is recommended to monitor PSA values regularly thereafter. Any confirmed increase from lowest PSA level while on Avoidart may signal the presence of prostate cancer (particularly high grade cancer) or noncompliance to therapy with Avoidart and should be carefully evaluated, even if those values are still within the normal range for men not taking a 5-alpha reductase inhibitor (see section "Pharmacodynamic Properties").

In the interpretation of a PSA value for a patient taking Avoidart, previous PSA values while on Avoidart treatment should be sought for comparison.

Treatment with Avoidart does not interfere with the use of PSA as a tool to assist in the diagnosis of prostate cancer after a new baseline has been established (see section "Pharmacodynamic Properties").

Total serum PSA levels return to baseline within 6 months of discontinuing treatment. The ratio of free to total PSA remains constant even under the influence of Avoidart. If clinicians elect to use percent free PSA as an aid in the detection of prostate cancer in men undergoing Avoidart therapy, no adjustment to its value appears necessary.

Prostate cancer and high grade tumours:

Results of one clinical study (the REDUCE study) in men at increased risk of prostate cancer revealed a higher of Gleason 8-10 prostate cancers in dutasteride treated men compared to placebo. The relationship between dutasteride and high grade prostate cancer is not clear. Men taking Avoidart should be regularly evaluated for prostate cancer risk including PSA testing (see section "Pharmacodynamic Properties").

Leaking capsules

Dutasteride is absorbed through the skin, therefore, women, children and adolescents must avoid contact with leaking capsules (see section "Pregnancy and Lactation").

Dutasteride was not studied in patients with liver disease. Caution should be used in the administration of dutasteride to patients with mild to moderate hepatic impairment (see section "Pharmacology and Method of Administration", section "Contraindications" and section "Pharmacokinetic Properties").

Brain neoplasia

Brain cancer has been reported in men taking dutasteride in clinical trials (see section "Pharmacodynamic Properties").

* includes breast tenderness and breast enlargement

AVODART IN COMBINATION WITH THE ALPHA-BLOCKER TAMUSOLIN

Data from the 4 year CombAT Study, comparing dutasteride 0.5mg (n=1623) and tamsulosin 0.4mg (n=1611) once daily alone and in combination (n=1610) have shown that the incidence of any investigator-judged drug-related adverse event during the first, second, third and fourth years of treatment respectively was 22%, 6%, 4% and 2% for dutasteride/tamsulosin combination therapy, 15%, 6%, 5% and 2% for dutasteride monotherapy and 13%, 5%, 2% and 2% for tamsulosin monotherapy. The higher incidence of adverse events in the combination therapy group in the first year of treatment was due to a higher incidence of reproductive disorders, specifically ejaculation disorders, observed in this group.

The following investigator-judged drug-related adverse events have been reported with an incidence of greater than or equal to 1% during the first year of treatment in the CombAT Study; the incidence of these events during the four years of treatment is shown in the table below:

System Organ Class	Adverse Reaction	Incidence during treatment period			
		Year 1 (n=1610)	Year 2 (n=1428)	Year 3 (n=1283)	Year 4 (n=1200)
Cardiac disorders	Combination* (n=1623)	(n=1464)	(n=1325)	(n=1200)	
	Dutasteride (n=1623)	(n=1464)	(n=1325)	(n=1200)	
	Tamsulosin (n=1611)	(n=1488)	(n=1281)	(n=1112)	
	Combination*	1.4%	0.1%	<0.1%	0.2%
Nervous system disorders	Dutasteride	0.7%	0.1%	<0.1%	<0.1%
	Tamsulosin	1.3%	0.4%	<0.1%	0%
	Combination*	0.2%	0.4%	0.2%	0.2%
	Dutasteride	<0.1%	0.1%	<0.1%	0%
Reproductive system and breast disorders, Psychiatric disorders, Investigations	Tamsulosin	0.1%	<0.1%	0.4%	0.2%
	Combination*	6.3%	1.8%	0.9%	0.4%
	Dutasteride	5.1%	1.6%	0.6%	0.3%
	Tamsulosin	3.3%	1.0%	0.6%	1.1%
Altered (decreased) libido	Combination*	0.3%	0.8%	0.2%	0%
	Dutasteride	3.8%	1.0%	0.2%	0%
	Tamsulosin	2.5%	0.7%	0.2%	<0.1%
Ejaculation disorders	Combination*	9.0%	1.0%	0.5%	<0.1%
	Dutasteride	1.5%	0.5%	0.2%	0.3%
	Tamsulosin	2.7%	0.5%	0.2%	0.3%
Breast disorders	Combination*	2.1%	0.8%	0.9%	0.6%
	Dutasteride	1.7%	1.2%	0.5%	0.7%
	Tamsulosin	0.8%	0.4%	0.2%	0%

* Combination of dutasteride 0.5 mg once daily plus tamsulosin 0.4 mg once daily.

Cardiac failure composite term comprised of Cardiac failure congestive, cardiac failure, left ventricular failure, cardiac failure acute, cardiogenic shock, left ventricular failure acute, right ventricular failure, right ventricular failure acute, ventricular failure, cardiopulmonary failure, congestive cardiomyopathy.

These sexual adverse events are associated with dutasteride treatment (including monotherapy) and combination with tamsulosin. These adverse events may persist after treatment discontinuation. The role of dutasteride in this persistence is unknown.

* Includes breast tenderness and breast enlargement.

OTHER DATA

The REDUCE study revealed a higher incidence of Gleason 8-10 prostate cancers in dutasteride treated men compared to placebo (see section "Special Warnings and Precautions for Use" and "Pharmacodynamic Properties").

10% with the effect of dutasteride on cardiac conduction system, as noted in clinical studies. Increased the number of side

AVODART IN COMBINATION WITH THE ALPHA-BLOCKER TAMUSOLIN

Avoidart 0.5 mg/day (n = 1,623), tamsulosin 0.4 mg/day

(n = 1,611) or the combination of Avoidart 0.5 mg plus

tamsulosin 0.4 mg (n = 1,610) were evaluated in male

subjects with moderate to severe symptoms of BPH who

had prostates <20 ml and a PSA value within the range

1.5 - 10 ng/ml, in a multicentre, multinational, randomized

double-blind, parallel group study (the CombAT study).

Approximately 52% of subjects had previous exposure to

5-alpha reductase inhibitor or alpha-blocker treatment. The

primary efficacy endpoint during the first 2 years of

treatment was change in International Prostate Symptom

Score (IPSS), an 8-item instrument based on AUA-SI with an

additional question on quality of life. Secondary efficacy

endpoints at 2 years included maximum urine flow rate

(Qmax) and prostate volume.

The combination achieved significance for IPSS from Month

3 compared to Avoidart and from Month 9 compared to

tamsulosin. For Omax combination achieved significance

from Month 6 compared to both Avoidart and tamsulosin.

The primary efficacy endpoint at 4 years of treatment was

time to first event of AUR or BPH-related surgery. After 4

years of treatment, combination therapy statistically

significantly reduced the risk of AUR or BPH-related surgery

(65.8% reduction in risk; p<0.001) (95% CI 54.7% to

74.1%) compared to tamsulosin monotherapy. The incidence of AUR or BPH-related surgery by Year 4 was 4.2% for

combination therapy and 11.9% for tamsulosin (p<0.001). Compared to Avoidart monotherapy, combination therapy

reduced the risk of AUR or BPH-related surgery by 18.8% (p<0.18) (95% CI -10.8% to 41.7%). The incidence of AUR or

BPH-related surgery by Year 4 was 4.2% for combination therapy and 5.2% for Avoidart.

Secondary efficacy endpoints after 4 years of treatment included time to clinical progression (defined as a

composite of IPSS deterioration by ≥4 points, BPH-related events of AUR, incontinence, urinary tract infection (UTI),

and renal insufficiency) change in International Prostate Symptom Score (IPSS), maximum urine flow rate (Qmax)

and prostate volume. Results following 4 years of treatment are presented below.

Parameter	Time-point	Combination	Avoidart	Tamsulosin
Clinical progression* (%)	Month 48	12.6	17.8b	21.5a
	[Baseline]	(16.6)	(16.4)	(16.4)
IPSS (units)	Month 48 (Change from Baseline)	-6.3	-5.3b	-3.8a
	[Baseline]	(10.9)	(10.9)	(10.9)
Qmax (mL/sec)	Month 48 (Change from Baseline)	2.4	2.0	0.7a
	[Baseline]	(54.7)	(54.6)	(55.8)
Prostate Volume (ml)	Month 48 (% Change from Baseline)	-27.3	-28.0	+4.6a
	[Baseline]	(27.7)	(30.3)	(30.5)
Prostate Transition Zone Volume (ml)	Month 48 (% Change from Baseline)	-17.9	-26.5	18.2a
	[Baseline]	(5.3)	(5.3)	(5.3)
BPH Impact Index (BII) (units)	Month 48 (Change from Baseline)	-2.2	-1.8b	-1.2a
	[Baseline]	(3.5)	(3.5)	(3.5)
IPSS Question 8 (BPH-related Health Status) (units)	Month 48 (Change from Baseline)	-1.5	-1.3b	-1.1a
	[Baseline]	(3.5)	(3.5)	(3.5)

Baseline values are mean values and changes from baseline are adjusted mean changes.

* Clinical progression was defined as a composite of: IPSS deterioration by ≥4 points, BPH-related events of AUR,

incontinence, UTI, and renal insufficiency.

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Measured at selected sites (13% of randomized patients)

a. Combination achieved significance (p<0.001) vs. tamsulosin at Month 48

b. Combination achieved significance (p<0.001) vs. Avoidart at Month 48

CARDIAC FAILURE:

In 4 year BPH study of Avoidart in combination with tamsulosin in 4844 men (the CombAT study) the incidence of

the composite term cardiac failure in the combination group (14/1610, 0.9%) was higher than in either monotherapy

group: Avoidart, (4/1023, 0.2%) and tamsulosin, (10/1011, 0.6%).

In a separate 4-year study in 8231 men aged 50 to 75, with a prior negative biopsy for prostate cancer and baseline

PSA between 2.5 ng/mL and 10.0 ng/mL in the case of men 50 to 60 years of age, or 3 ng/mL and 10.0 ng/mL in the

case of men older than 60 years of age (the REDUCE study), there was a higher incidence of the composite term

cardiac failure in subjects taking Avoidart 0.5 mg once daily (304/105, 0.7%) compared to subjects taking placebo

(16/426, 0.4%). A post-hoc analysis of this study showed a higher incidence of the composite term cardiac failure in

subjects taking Avoidart and an alpha blocker concomitantly (12/1152, 1.0%), compared to subjects taking Avoidart

and no alpha blocker (18/2553, 0.6%), placebo and an alpha blocker (1/1389, <0.1%), or placebo and no alpha blocker

(15/2727, 0.5%) (see section "Special Warnings and Precautions for Use").

Prostate cancer and high grade tumours

In a 4-year comparison of placebo and Avoidart in 8231 men aged 50 to 75, with a prior negative biopsy for prostate

cancer and baseline PSA between 2.5 ng/mL and 10.0 ng/mL in the case of men 50 to 60 years of age, or 3 ng/mL

and 10.0 ng/mL in the case of men older than 60 years of age (the REDUCE study) 6708 subjects had prostate

needle biopsy (primarily protocol mandated) data available for analysis to determine Gleason Scores. There were

1517 subjects diagnosed with prostate cancer in the study. The majority of biopsy-detectable prostate cancers in

both treatment groups were diagnosed as low grade (Gleason 5-6, 70%).

There was a higher incidence of Gleason 8-10 prostate cancers in the Avoidart group (n=23, 0.9%) compared to the

placebo group (n=9, 0.5%) (p=0.15). In Years 1-2, the number of subjects with Gleason 8-10 cancers was similar in the

Avoidart group (n=17, 0.5%) and the placebo group (n=18, 0.5%). In Years 3-4, more Gleason 8-10 cancers were

diagnosed in the Avoidart group (n=12, 0.5%) compared with the placebo group (n=1, <0.1%) (p=0.0038). There are no

data available on the effect of Avoidart beyond 4 years in men.

The percentage of subjects diagnosed with Gleason 8-10 cancers was consistent across study time periods (Years 1-2 and Years 3-4) in the Avoidart

group (0.5% in each time period), while in the placebo group, the percentage of subjects diagnosed with Gleason 8-10

cancers was lower during Years 3-4 than in Years 1-2 (<0.1% versus 0.5%, respectively) (see section "Special Warnings

and Precautions for Use"). There was no difference in the incidence of Gleason 7-10 cancers (p=0.81).

In a 4 year BPH study (CombAT) where there were no protocol-mandated biopsies and all diagnoses of prostate

cancer were based on for-cause biopsies, the rates of Gleason 8-10 cancer were (n=6, 0.5%) for Avoidart, (n=1, 0.7%)

for tamsulosin and (n=5, 0.3%) for combination therapy.

The relationship between Avoidart and high grade prostate cancer is not clear.

