



associated with plasma tamsulosin levels (AUC) at least 50% of those expected in human male treated with Tamsulosin hydrochloride tablets.

Treatment of female rats with tamsulosin caused disruption of the oestrus cycle and a severe reduction in fertility, due to interference of fertilisation with the ova. These effects were shown to be reversible.

Ejaculation disorders have been observed in retro and long term clinical studies with tamsulosin. Events of ejaculation disorder, retrograde ejaculation and ejaculation failure have been reported in the post authorization phase.

Use in pregnancy (Category B2)

Tamsulosin hydrochloride tablet is intended for use only in males.

Tamsulosin, at oral doses causing maternal toxicity, was not embryotoxic or teratogenic when administered during gestation in rats (doses up to 300 mg/kg/day) or rabbits (doses up to 50 mg/kg/day). However, administration of tamsulosin during the peri-/post- natal period was associated with a higher incidence of stillbirths and reduced pup weight gain after birth. No adverse effects on development or reproductive performance were observed on surviving pups, however, there is some evidence for impairment of offspring reproductive capacity when maternal treatment with tamsulosin is started before pregnancy.

Use in lactation

Tamsulosin hydrochloride tablet or its metabolites were shown to pass into milk after oral administration of the drug during lactation. The effect on the newborn is not known.

In female rats, tamsulosin and/or its metabolites were shown to pass into milk after oral administration of the drug during lactation. The effect on the newborn is not known.

Other populations

Tamsulosin hydrochloride tablet is not indicated for use in women or children.

Renal impairment

Severe renal impairment, with creatinine clearance of less than 10 mL/min is a CONTRAINDICATION, as these patients have not been studied.

Hepatic impairment

In a study of patients with moderate hepatic impairment, free tamsulosin levels remained unchanged after treatment with 400 µg tamsulosin hydrochloride in a modified release capsule formulation when compared to normal subjects. Since the type of formulation will not affect the disposition of patients with mild to moderate for Tamsulosin hydrochloride tablet is expected in patients with no dose adjustment

Severe hepatic impairment (Child-Pugh scores >9) is a CONTRAINDICATION.

Genotoxicity

In vivo and in vitro genotoxicity studies have been conducted.

Tamsulosin HCl produced no evidence of genotoxic potential in assays for gene mutation (Ames reverse mutation test and mouse lymphoma thymidine kinase assay), chromosomal damage (Chinese hamster ovary cells and mouse micronucleus assay) and other genotoxic effects (unscheduled DNA repair synthesis and in vivo sister chromatid exchange).

Carcinogenicity

Reproduction toxicity studies in rats and carcinogenicity studies in mice and rats have been conducted.

Oral (dietary) administration of tamsulosin for up to 2 years in rats and mice was associated with an increased incidence of pituitary adenoma, mammary gland hyperplasia, mammary gland fibroadenoma and (in mice only) mammary gland adenocarcinoma. These effects occurred at plasma tamsulosin concentrations (AUC) up to 10 times lower than those expected in male undergoing treatment with Tamsulosin hydrochloride tablet, but they were observed only in female animals and are probably due to the hyperprolactinaemic effect of tamsulosin. It is not known if Tamsulosin hydrochloride tablet elevates prolactin during prolonged administration in humans. The relevance for human risk of the findings of prolactin-mediated endocrine tumours in female rodents is unknown.

Interactions with other drugs

Drugs known to interact with tamsulosin

Concomitant cimetidine leads to a rise in plasma levels of tamsulosin, while furosemide leads to a fall (about 12% following a single 20 mg intravenous dose). However, as levels remain within the normal range, dosage need not be adjusted.

Concurrent administration of Tamsulosin hydrochloride tablet with other α1-adrenoceptor antagonists is contraindicated because of the potential for hypotensive effects (see CONTRAINDICATIONS).

Drugs which may interact with tamsulosin

Tamsulosin binds extensively to plasma proteins and may displace other protein-bound drugs. Clinical trial data are not available.

No interactions at the level of hepatic metabolism have been seen during in vitro studies with liver microsomal fractions (representative of the cytochrome P450-linked drug metabolising enzyme system), involving amitriptyline, salbutamol, glibenclamide and finasteride. Diclofenac and warfarin, however, may increase the elimination rate of tamsulosin.

Drugs which do not interact significantly with tamsulosin

Tamsulosin hydrochloride tablet did not affect the pharmacokinetics of a single intravenous dose of digoxin 0.5 mg.

No interactions have been seen when tamsulosin hydrochloride was given concomitantly with either atenolol, enalapril, nifedipine or theophylline.

General

Tamsulosin is metabolized in the liver, and may be expected to interact with other hepatically-metabolised drugs. Pharmacokinetic studies in healthy volunteers revealed that concomitant administration with strong inhibitors of CYP3A4 or CYP2D6 may lead to increased exposure to tamsulosin. Concomitant administration with ketoconazole (a known CYP3A4 inhibitor) resulted in an increased Cmax and AUC of tamsulosin (a known CYP3A4 inhibitor) should not be used in combination with strong inhibitors of CYP3A4 in patients known to be CYP2D6 poor metabolizers. Concomitant administration with paroxetine (a known CYP2D6 inhibitor) resulted in an increased Cmax and AUC of tamsulosin. Tamsulosin should therefore be used with caution in patients who are taking other drugs, particularly those which undergo hepatic metabolism.

Other in vitro findings

In vitro, neither diazepam nor propranolol, trichlormethiazide, chlormadinone, amitriptyline, diclofenac, glibenclamide, simvastatin and warfarin change the free fraction of tamsulosin in human plasma. Neither does tamsulosin change the free fractions of diazepam, propranolol, trichlormethiazide and chlormadinone.

An in vitro study using human liver microsomal fractions showed no effect of amitriptyline, salbutamol, glibenclamide and finasteride on the rate of disappearance of tamsulosin. The clinical relevance of these findings is uncertain.

ADVERSE REACTIONS

Priapism

Rarely, tamsulosin, like other alpha-1 antagonists, has been associated with priapism (persistent painful penile erection unrelated to sexual activity). Patients should be informed that this reaction is extremely rare, but if not brought to immediate medical attention, can lead to permanent erectile dysfunction.

Abnormal ejaculation

Patients should be advised on the potential for abnormal ejaculation to occur upon commencement of Tamsulosin hydrochloride tablet treatment. Retrograde ejaculation is the most commonly reported abnormal ejaculation event associated with the use of Tamsulosin hydrochloride tablet (see Table 4).

Clinical Trials

Table 4 shows the incidence of undesirable effects following 400 µg Tamsulosin hydrochloride tablet treatment. This data is based on a phase 3 clinical study in which there were no relevant differences between the treatment and placebo groups in the percentage of patients reporting at least 1 Treatment Emergent Adverse Event (TEAE). Most TEAEs were of mild or moderate intensity. The most frequent TEAEs were ejaculation disorders. These are TEAEs that are often associated with α1-AR antagonists.

Table 4: Adverse events associated with Tamsulosin hydrochloride tablet in a placebo-controlled study.

	Placebo N=356	Tamsulosin HCl tablet N=360
Retrograde ejaculation	1 (0.3%)	6 (1.7%)
Ejaculation failure	0 (0.0%)	0 (0.0%)
Semen volume reduced	0 (0.0%)	1 (0.3%)
Ejaculation delayed	0 (0.0%)	1 (0.3%)
Ejaculation disorder NOS	0 (0.0%)	0 (0.0%)
Abnormal ejaculation pooled	1 (0.3%)	7 (1.9%)
Headache NOS	4 (1.1%)	3 (0.8%)
Asthenia	1 (0.3%)	1 (0.3%)
Fatigue	1 (0.3%)	3 (0.8%)
Somnolence	0 (0.0%)	0 (0.0%)
Rhinitis NOS	0 (0.0%)	1 (0.3%)
Nasal congestion	0 (0.0%)	1 (0.3%)
Nasal obstruction	0 (0.0%)	0 (0.0%)
SUB-TOTAL	7 (2.0%)	16 (4.4%)
Cardiovascular class effects		
Dizziness	5 (1.4%)	5 (1.4%)
Dizziness aggravated	0 (0.0%)	0 (0.0%)
Dizzy spell	0 (0.0%)	0 (0.0%)
Dizziness pooled	5 (1.4%)	5 (1.4%)
Palpitations	2 (0.6%)	2 (0.6%)
Tachycardia NOS	0 (0.0%)	1 (0.3%)
Hypotension NOS	1 (0.3%)	0 (0.0%)
Orthostatic hypotension	0 (0.0%)	0 (0.0%)
Dizziness postural	0 (0.0%)	0 (0.0%)
Syncope	0 (0.0%)	0 (0.0%)
Orthostatic/ circulatory collapse	0 (0.0%)	0 (0.0%)
Depressed level/loss of consciousness	0 (0.0%)	1 (0.3%)
SUB-TOTAL	8 (2.2%)	9 (2.5%)
TOTAL	13 (3.7%)	25 (6.9%)

NOS = Not Otherwise Specified.

A patient may experience a TEAE more than once or may experience more than one TEAE within the same System Organ Class. Data from clinical trial study 617-CL-307.

The following treatment-related adverse events were reported from clinical trials; where: Common is ≥1% and <10%; Uncommon is ≥0.01% and <1%; Rare is ≥0.01% and <0.1%; and Very rare is <0.01%.

Cardiac disorders

Uncommon: palpitations.

Gastro-intestinal disorders

Uncommon: constipation, diarrhoea, nausea, vomiting.

General disorders

Uncommon: asthenia.

Nervous system disorders

Common: dizziness (1.3%).  
Uncommon: headache.  
Rare: syncope.

Reproductive system disorders

Common: ejaculation disorders, including retrograde ejaculation and ejaculation failure.  
Very rare: priapism.

Respiratory, thoracic and mediastinal disorders

Uncommon: rhinitis.

Skin and subcutaneous tissue disorders

Uncommon: rash, pruritus, urticaria.  
Rare: angioedema.  
Very rare: Stevens-Johnson syndrome

Vascular disorders

Uncommon: postural hypotension.

Post-marketing experience

The following events have been reported during the post-marketing period. These events are reported voluntarily from a population of uncertain size, therefore it is not possible to reliably estimate their frequency.

Vision disorders: blurred vision, vision impairment.

During cataract and glaucoma surgery, a variant of small pupil syndrome known as Intra- operative Floppy Iris Syndrome (IFIS) has been reported in association with α1-adrenoceptor antagonist therapy (See PRECAUTIONS).

Skin and subcutaneous tissue disorders: skin desquamation, dermatitis exfoliative, erythema multiforme, photosensitivity reaction.

Respiratory, thoracic and mediastinal disorders: dyspnoea, epistaxis.

As with other α-blockers, drowsiness, dry mouth or oedema can occur during treatment with tamsulosin hydrochloride.

DOSAGE AND ADMINISTRATION

One tablet daily.

The tablet must be swallowed whole and not be broken, crunched or chewed, as this compromises the prolonged release character of the tablet for the active ingredient. Tamsulosin hydrochloride tablet can be taken on an empty stomach, or before, with or after food.

OVERDOSAGE

Acute overdose with 5 mg tamsulosin hydrochloride has been reported. Acute hypotension (systolic blood pressure 70 mm Hg), vomiting and diarrhoea were observed, which were treated with fluid replacement and the patient could be discharged the same day.

If acute hypotension occurs after overdose, cardiovascular support should be given and maintained. Blood pressure can be restored and heart rate brought back to normal by lying the patient down. If this is insufficient then volume expanders and, when necessary, vasopressors could be administered. Renal function should be monitored and general supportive measures applied. Dialysis is unlikely to be of help as tamsulosin is very highly bound to plasma proteins.

Tamsulosin hydrochloride tablet is a sustained release formulation. The signs and symptoms of overdose may be delayed or prolonged from the time of ingestion.

PRESENTATION

Tamsulosin-Teva is a film-coated, prolonged release tablet containing 400 mcg of tamsulosin hydrochloride equivalent to 367 mcg of tamsulosin per tablet. The tablets are yellow, biconvex, oval film-coated tablets debossed "T04" on one side and plain on the other.

Tamsulosin-Teva prolonged release tablet is available in pack of 3 blisters of 10 tablets (OPA/Alu/PVC-Alu blister).

STORAGE

Tamsulosin-Teva prolonged release tablets should be stored at or below 30°C.

MANUFACTURER

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