

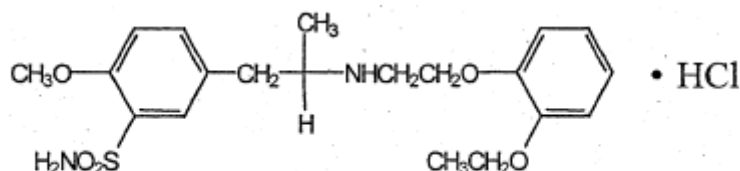
Harnal[®] OCAS

APPROVED NAME

Tamsulosin hydrochloride

DESCRIPTION

Harnal[®] OCAS is a film-coated, prolonged release tablet containing 400 µg tamsulosin hydrochloride, an α_1 -adrenoceptor blocking agent. It has a high affinity for the α_{1A} -receptor subtype predominantly present in the human prostate. The chemical structure of tamsulosin hydrochloride is:



The chemical name is (R)-5-[2-[[2-(2-ethoxyphenoxy)ethyl]amino]propyl]-2-methoxybenzenesulfonamide, monohydrochloride. The molecular weight is 444.98. The CAS registry number is CAS-106463-17-6 (hydrochloride).

Harnal[®] OCAS also contains macrogol 7,000,000, macrogol 8,000, magnesium stearate, butylated hydroxytoluene, colloidal silica anhydrous, hypromellose, iron oxide yellow. None of the excipients is derived from animal sources.

Tamsulosin hydrochloride is sparingly soluble in water (1:85) and slightly soluble in alcohol. It is stable in an acid environment.

PHARMACOLOGY

The tone of the human prostate smooth muscle is maintained primarily by noradrenaline released from adrenergic nerves and stimulating post-junctional α_1 -adrenoceptors. This provides the rationale for the use of α_1 -adrenoceptor antagonists for lower urinary tract symptoms associated with benign prostatic hyperplasia (BPH).

Pharmacodynamics

Pharmacological studies have established that tamsulosin is a selective, potent and competitive α_1 -adrenoceptor antagonist and that it has a greater affinity for the α_{1A} -receptor subtype, predominantly present in the human prostate.

α_1 -adrenoceptor antagonists generally can reduce blood pressure by lowering peripheral resistance. However, no reduction in blood pressure of any clinical significance was observed during studies with Harnal[®] OCAS.

The binding of tamsulosin to α_1 -adrenoceptors in the prostate results in relaxation of prostate smooth muscle followed by improvements in urodynamics. Thus, Harnal[®] OCAS increases maximum urinary flow rate by reducing smooth muscle tension in the prostate and urethra and thereby relieving obstruction.

It also improves the symptoms related to bladder instability and tension of the smooth muscle of the lower urinary tract.

These effects on urinary storage and voiding symptoms are maintained during long-term therapy. The need for surgery or catheterisation is significantly delayed.

Pharmacokinetics

Absorption and distribution

Harnal[®] OCAS is a prolonged release tablet of the non-ionic gel matrix type. The

Harnal[®] OCAS formulation provides consistent slow release of tamsulosin, which is maintained over the whole pH range encountered in the gastro-intestinal tract, resulting in an adequate exposure, with little fluctuation, over 24 hours.

Tamsulosin administered as Harnal[®] OCAS is absorbed from the intestine. Of the administered dose, approximately 55 to 59% is estimated to be absorbed. The rate and extent of absorption of tamsulosin hydrochloride administered as Harnal[®] OCAS tablets are only slightly affected by food, but this is unlikely to be clinically significant.

Tamsulosin hydrochloride administered as Harnal[®] OCAS tablets exhibits near linear pharmacokinetics (plasma concentrations C_{max} and AUC vs dose) over the dosage range 0.4 mg through 0.8 mg to 1.2 mg once daily. Steady state is reached by day 4 of multiple dosing. The pharmacokinetics of a 400 µg once daily dose of tamsulosin hydrochloride as Harnal[®] OCAS tablets as a single dose under fasted conditions, and steady state under fed and fasted conditions, are shown in Table 1.

Table 1: Mean (SD) pharmacokinetic parameters following once daily dosing with 400 µg of tamsulosin hydrochloride as Harnal[®] OCAS tablets.

| Parameter | 400µg single dose to fasted health males (n=12) | 400µg multiple dose to healthy males at steady state (n=24) | |
|-------------------|---|---|---------------|
| | | Fasted | Fed |
| T_{max} (hr) | 8.51 (7.32) | 4.75 (1.65) | 4.16 (1.47) |
| C_{max} (ng/mL) | 5.88 (2.61) | 10.7 (5.5) | 11.1 (3.7) |
| C_{24} (ng/mL) | 4.16 (1.98) | 4.6 (3.6) | 4.8 (2.7) |
| AUC* (ng.hr/mL) | 201.6 (104.0) | 162.4 (104.2) | 165.9 (69.1) |
| $T_{1/2}$ (hr) | 18.67 (6.99) | 15.6 (4.4) | 14.6 (7.0) |
| TPF | NA | 0.404 (0.144) | 0.421 (0.116) |

*AUC_{0-inf} for single dose; AUC₀₋₂₄ for multiple dose

TPF: trough-peak fluctuation. NA: not applicable.

As a result of the prolonged release characteristic of Harnal[®] OCAS, the trough concentrations – at steady state, of tamsulosin hydrochloride in plasma amount to approximately 40% of the peak plasma concentrations, under fasted and fed conditions.

There is a considerable inter-patient variation in the plasma concentrations of tamsulosin hydrochloride, after both single and multiple dosing.

In man, tamsulosin is about 99% bound to plasma proteins. The volume of distribution is small (about 0.2 l/kg).

Metabolism and Excretion

Harnal[®] OCAS 400 µg contains tamsulosin as the R(-) isomer. In humans, there is no *in vivo* conversion to the less active S(+) isomer. Tamsulosin has a low first-pass effect, being metabolised slowly. Most tamsulosin is present in plasma in the form of unchanged drug. Tamsulosin is metabolised in the liver but the specific cytochrome P450 isoenzymes responsible for this metabolism have not have been identified. In rats, tamsulosin was seen to cause minimal induction of microsomal liver enzymes. No dose adjustment is warranted in hepatic insufficiency (see also CONTRAINDICATIONS).

None of the metabolites is more active than the original precursor compound.

Tamsulosin and its metabolites are mainly excreted in the urine. The amount excreted as unchanged drug is estimated to be about 4 - 6% of the dose administered as Harnal[®]

OCAS.

No dose adjustment is warranted in renal impairment (see also CONTRAINDICATIONS).

CLINICAL TRIALS

The efficacy of Harnal[®] OCAS has been evaluated in 2 randomised, placebo-controlled studies: the phase 2 dose-response study 617-CL-303 and the phase 3 study 617-CL-307. A total of 2962 patients were studied, of which 560 were treated with 0.4 mg of Harnal[®] OCAS and 564 were treated with placebo. The remaining subjects were treated with 0.4 mg (capsules), 0.8 mg and 1.2 mg (tablets) doses of tamsulosin hydrochloride.

Inclusion Criteria

In both studies the inclusion criteria were: male patients aged >45 years, diagnosed as having lower urinary tract symptoms (LUTS) suggestive of BPH, with voiding/obstructive symptoms (including incomplete emptying of the bladder, intermittency, poor stream or hesitancy), and/or storage/irritative/filling symptoms (including daytime frequency, urgency or nocturia).

These patients had a total International Prostate Symptom Score (I-PSS) of >13, both at enrolment (Visit 1) and at baseline after the 2-week placebo run-in period (Visit 2). At enrolment, they also had to have a maximum flow rate (Q_{max}) of >4.0 mL/s and <12.0 mL/s, with a voided volume >120 mL during free flow.

Patients with cardiac ischaemia were excluded from participation in these trials. Safety in such patients has not been formally assessed.

Study 617-CL-303:

Study 617-CL-303 was a multi-centre, double-blind, randomised placebo-controlled, parallel group, dose-response study. In this study, 211 patients received placebo and 203 patients received 400 µg of Harnal[®] OCAS tablets once daily for 12 weeks of the double-blind randomised treatment. The results of study 617-CL-303 are summarised in Table 2.

Study 617-CL-307:

Study 617-CL-307 was a multi-centre, double-blind, randomised, placebo and active-controlled, parallel group study. In this study, 353 patients received placebo and 357 patients received 400 µg of Harnal[®] OCAS tablets once daily for 12 weeks of the double-blind randomised treatment. The results of study 617-CL-307 are summarised in Table 3.

The primary efficacy parameter in both studies following 400 µg Harnal[®] OCAS treatment was the change from baseline to endpoint in total I-PSS scores. The secondary efficacy analyses contained the changes from baseline in voiding and storage I-PSS sub-scores, and I-PSS Quality of Life scores.

The I-PSS questionnaire was developed and validated by the American Urological Association (I-PSS previously called the AUA Symptom Index) and consisted of 7 questions evaluating the frequency of 7 urinary symptoms. These included 4 voiding symptoms (poor stream, hesitancy, intermittency and incomplete bladder emptying) and 3 storage symptoms (daytime frequency, nocturia and urgency). The patient rated each of the 7 symptoms on a scale of 0-5 of increasing symptom severity. The total score could therefore range from 0-35, the voiding sub-score from 0-20 and the storage sub-score from 0-15. The questionnaire was adopted by the World Health Organisation, who added a further question assessing the impact of the urinary symptoms on the Quality of Life. The Quality of Life question asked how the patient would feel about his current level of symptoms for the rest of his life, ranging from 1 (delighted) to 6 (terrible).

Table 2: Results from clinical trial 617-CL-303 showing mean (SD) changes from baseline scores following daily treatment with placebo or 400 µg of Harnal[®] OCAS.

| Parameter | Treatment | Baseline Mean (SD) | Endpoint Mean (SD) | Mean Change (SD) | Mean % Change (SD) | Mean Difference Vs placebo (95% CI) | P value vs placebo |
|-------------------|--|--------------------------|--------------------------|--------------------------|------------------------------|-------------------------------------|--------------------|
| Total I-PSS | Placebo Harnal [®] OCAS | 17.8 (4.0) 18.0 (4.3) | 11.7 (6.1) 10.4 (5.5) | -6.0 (5.4) -7.6 (5.3) | -34.5 (30.1) -42.4 (27.6) | -1.6 (-2.5, -0.6) | 0.0016* |
| Voiding I-PSS | Placebo Harnal [®] OCAS | 10.4 (3.2) 10.6 (3.3) | 6.9 (4.1) 5.7 (3.6) | -3.6 (3.5) -4.8 (3.8) | -35.1 (33.6) -44.2 (32.9) | -1.2 (-1.9, -0.6) | |
| Storage I-PSS | Placebo Harnal [®] OCAS | 7.3 (2.6) 7.4 (2.7) | 4.9 (2.7) 4.6 (2.7) | -2.4 (2.9) -2.8 (2.5) | -30.0 (40.0) -37.2 (31.9) | -0.3 (-0.8, 0.2) | |
| Quality** Of Life | Placebo Harnal [®] OCAS | 3.7 (1.0) 3.7 (1.0) | 2.8 (1.2) 2.4 (1.3) | -0.9 (1.3) -1.3 (1.3) | - - | -0.4 (-0.6, -0.2) | |

Table 3: Results from clinical trial 617-CL-307 showing mean (SD) changes from baseline scores following daily treatment with placebo or 400 µg of Harnal[®] OCAS.

| Parameter | Treatment | Baseline Mean (SD) | Endpoint Mean (SD) | Mean Change (SD) | Mean % Change (SD) | Mean Difference Vs placebo (95%-CI) | P value vs placebo |
|-------------------|--|--------------------------|--------------------------|--------------------------|------------------------------|-------------------------------------|--------------------|
| Total I-PSS | Placebo Harnal [®] OCAS | 18.3 (4.5) 18.5 (4.4) | 12.4 (6.4) 10.8 (6.2) | -5.8 (5.6) -7.7 (5.8) | -32.0 (30.8) -41.7 (29.6) | -1.7 (-2.5, -1.0) | <0.0001* |
| Voiding I-PSS | Placebo Harnal [®] OCAS | 10.6 (3.4) 10.7 (3.4) | 7.0 (4.1) 6.0 (4.2) | -3.7 (3.8) -4.7 (4.0) | -32.6 (41.4) -43.9 (34.4) | -1.0 (-1.5, 0.5) | |
| Storage I-PSS | Placebo Harnal [®] OCAS | 7.6 (2.6) 7.8 (2.6) | 5.4 (3.0) 4.8 (2.8) | -2.2 (2.7) -3.0 (2.8) | -27.2 (34.6) -37.4 (32.5) | -0.7 (-1.1, -0.4) | |
| Quality** Of Life | Placebo Harnal [®] OCAS | 3.8 (1.0) 3.8 (1.0) | 2.7 (1.3) 2.4 (1.3) | -1.1 (1.3) -1.4 (1.3) | - - | 1.53 (1.18, 2.00) | |

* = statistically significant

I-PSS SD = International Prostate Symptom Score

CI = Standard Deviation

** = Confidence Interval

= Odds ratio

INDICATIONS

For the relief of lower urinary tract symptoms (LUTS) associated with benign prostatic hyperplasia (BPH).

CONTRAINDICATIONS

- Hypersensitivity to tamsulosin hydrochloride, including drug-induced angioedema or any other component of the product.
- A history of orthostatic hypotension.
- Severe hepatic impairment (Child-Pugh scores >9).
- Severe renal impairment with creatinine clearance of less than 10mL/min.
- Concurrent use of another α_1 -adrenoceptor inhibitor.

PRECAUTIONS

Syncope and Postural hypotension

Patients beginning treatment with Harnal[®] OCAS tablets should be cautioned to avoid situations where injury could result should syncope occur. Postural hypotension can occur during treatment with Harnal[®] OCAS but rarely results in syncope. However, the patient should be warned of this possibility and advised to sit or lie down if symptoms of hypotension should occur.

Exclusion of prostatic carcinoma and other urological conditions

Carcinoma of the prostate and other conditions which can cause the same symptoms as benign prostatic hyperplasia should be excluded before starting therapy with Harnal[®] OCAS. Digital rectal examination and, as considered appropriate, determination of prostate specific antigen should be performed before treatment and at regular intervals afterwards.

Myocardial ischaemia

Patients with myocardial infarction or angina pectoris within the preceding six months were excluded from the Phase III clinical studies. As a result, the safety of Harnal[®] OCAS in these patients has not been formally assessed.

Dizziness

As Harnal[®] OCAS may cause dizziness, patients should be warned to take care whilst operating machinery or driving.

Intra-operative Floppy Iris Syndrome

Intra-operative Floppy Iris Syndrome (IFIS) has been observed during cataract and glaucoma surgery in some patients taking or who have previously been treated with α_1 -adrenoceptor antagonists, including tamsulosin. This variant of small pupil syndrome is characterised by the combination of a flaccid iris that billows in response to intra-operative irrigation currents, progressive intra-operative miosis despite preoperative dilation with standard mydriatic drugs, and potential prolapse of the iris toward the phaco- emulsification incisions.

During pre-operative assessment, ophthalmologists and ophthalmic teams should consider whether patients scheduled for cataract or glaucoma surgery are being, or have been, treated with α_1 -adrenoceptor antagonists in order to ensure that appropriate measures will be in place to manage IFIS during surgery if it occurs. The patient's ophthalmologist should be prepared for possible modifications to their surgical technique, such as the utilisation of iris hooks, iris dilator rings, or visco-elastic substances. The benefit of stopping α_1 -adrenoceptor antagonist therapy prior to cataract or glaucoma surgery has not been established.

Sulfa Allergy

Cases of allergic reaction to tamsulosin in patients with a past history of sulphonamide allergy have been reported. If a patient reports a sulfa allergy, caution is warranted when administering Harnal[®] OCAS.

Effects on fertility

α -adrenoceptor antagonists are known to reduce male fertility by affecting penile erection, emission and/or ejaculation. In male rats, a severe reduction in male copulation rate and fertility was observed after a single dose or after repeated oral doses of tamsulosin. Spermatogenesis was not affected in the rat studies, and the effect on

fertility was reversible. The no effect dose on male rat fertility was associated with plasma tamsulosin levels (AUC) at least 50% of those expected in human male treated with Harnal[®] OCAS.

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 short 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)

Harnal[®] OCAS 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

Harnal[®] OCAS is intended for use only in males.

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

Harnal[®] OCAS 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 tamsulosin no dose adjustment for Harnal[®] OCAS is expected in patients with mild to moderate hepatic impairment.

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 men undergoing treatment with Harnal® OCAS, but they were observed only in female animals and are probably due to the hyperprolactinaemic effect of tamsulosin. It is not known if Harnal® OCAS 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 Harnal® OCAS with other α_1 -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

Harnal® OCAS 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 C_{max} and AUC of tamsulosin.

Tamsulosin 400 µg 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 C_{max} 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 Harnal[®] OCAS treatment. Retrograde ejaculation is the most commonly reported abnormal ejaculation event associated with the use of Harnal[®] OCAS (see Table 4).

Clinical Trials

Table 4 shows the incidence of undesirable effects following 400 µg Harnal[®] OCAS 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 Harnal[®] OCAS in a placebo-controlled study.

| | Placebo N=356 | Harnal [®] OCAS N=360 |
|---|------------------|-----------------------------------|
| Non-cardiovascular class effects | | |
| 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 call 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 of/ loss 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 $\geq 1\%$ and $< 10\%$; Uncommon is $\geq 0.01\%$ and $< 1\%$; Rare is $\geq 0.01\%$ 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 α 1-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 properties of the tablet for the active ingredient.

Harnal[®] OCAS 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.

Harnal[®] OCAS is a sustained release formulation. The signs and symptoms of overdose may be delayed or prolonged from the time of ingestion.

PRESENTATION

Harnal[®] OCAS is a film-coated, prolonged release tablet containing 400 μ g of tamsulosin hydrochloride equivalent to 367 μ g of tamsulosin per tablet. Harnal[®] OCAS tablets are yellow, approximately 9 mm, round, bi-convex, film-coated and debossed with the code '04' on one side.

Harnal[®] OCAS is available in packs of 10 tablets and 30 tablets supplied in aluminium foil blister strips, each of which contains 10 tablets.

STORAGE

Harnal[®] OCAS should be stored at or below 30°C.

NAME AND ADDRESS OF MANUFACTURER



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