

12.3 Pharmacokinetics

Absorption

In a study of 15 healthy young subjects, the mean bioavailability of fraseride 5 mg tablets was 63% (range 34 to 108%), based on the ratio of the area under the curve (AUC) to an intravenous (IV) reference dose. Maximum fraseride plasma concentration averaged 37 ng/mL (range 27 to 49 ng/mL) and was reached 1 to 2 hours postdose. Bioavailability of fraseride was not affected by food.

Mean steady-state volume of distribution was 76 liters (range, 44 to 96 liters). Approximately 90% of circulating fraseride is bound to plasma proteins. There is a slow accumulation phase for fraseride after multiple dosing. After dosing with 5 mg/day of fraseride for 17 days, plasma concentrations of fraseride were 47 and 54% higher than after the first dose in men 45 to 60 years old (10 to 17) and 270 years old (10 to 12), respectively. Mean trough concentrations after 17 days of dosing were 6.2 ng/mL (range, 2.4 to 8 ng/mL), and 8.1 ng/mL (range, 1.8 to 18.7 ng/mL), respectively, in the two age groups. Although steady state was not reached in this study, mean trough plasma concentration in another study in patients with BPH (mean age, 65 years) receiving 5 mg/day was 9.4 ng/mL (range, 7.1 to 13.3 ng/mL, n=22) after one year of dosing.

Fraseride has been shown to cross the blood brain barrier but does not appear to distribute preferentially to the CNS. In a study of healthy subjects (n=60) receiving fraseride tablets USP 5 mg/day for 6 to 24 weeks, fraseride concentrations in semen ranged from undetectable (0.1 ng/mL) to 10.54 ng/mL. In an earlier study using a less sensitive assay, fraseride concentrations in the semen of 18 subjects receiving fraseride tablets USP 5 mg/day ranged from undetectable (<1.0 ng/mL) to 21 ng/mL. Thus, based on a 5 mL ejaculate volume, the amount of fraseride in semen was estimated to be 50 to 100-fold less than the dose of fraseride (5 mg) that had no effect on circulating DHT levels in men (see also Use in Specific Populations (8.1)).

Metabolism

Fraseride is extensively metabolized in the liver, primarily via the cytochrome P450 3A4 enzyme substrate. Two metabolites, the 3-hydroxy side chain monohydroxyethyl and monooxycarboxylic acid metabolites, have been identified that possess no more than 20% of the 5 α -reductase inhibitory activity of fraseride.

Excretion

In healthy young subjects (n=15), mean plasma clearance of fraseride was 165 mL/min (range, 70 to 279 mL/min) and mean elimination half-life in plasma was 6 hours (range, 3 to 16 hours). Following an oral dose of ¹⁴C-fraseride in men (n=4), a mean 38% (range, 32 to 46%) of the dose was excreted in the urine in the form of metabolites; 57% (range, 51 to 64%) was excreted in the feces.

The mean terminal half-life of fraseride in subjects >70 years of age was approximately 8 hours (range, 6 to 15 hours, n=12), compared with 6 hours (range, 4 to 7 hours, n=12) in subjects 45 to 60 years of age. As predicted, mean $t_{1/2}$ was about 17 days of dosing was 15% higher in subjects >70 years of age than in subjects 45 to 60 years of age (p=0.02).

Parameter	Mean (± SD)
Bioavailability	63% (24-108)*
C _{max} (ng/mL)	37 (6)
Volume of Distribution (L)	76 (14)
Half-Life (hours)	6.2 (2.1)

Range

Fraseride pharmacokinetics have been investigated in patients (<18 years of age). Fraseride is not indicated for use in pediatric patients (see Warnings and Precautions (5.4), Use in Specific Populations (8.1)).

Gender

Fraseride is indicated for use in women (see Contraindications (4), Warnings and Precautions (5.3 and 5.4), Use in Specific Populations (8.1), How Supplied/Storage and Handling (10) and Patient Counseling Information (17.2)).

Geriatric

No dosage adjustment is necessary in the elderly. Although the elimination rate of fraseride is decreased in the elderly, these findings are of no clinical significance. (See Clinical Pharmacology (12.3) and Use in Specific Populations (8.1)).

Parameter	Mean (± SD)
AUC (ng·h/mL)	450 (80)
C _{max} (ng/mL)	46.2 (8.7)
Peak Concentration (ng/mL)	46.2 (8.7)
Time to Peak (hours)	1.8 (0.7)
Half-Life (hours)	6.0 (2.5)

*First-dose values; all other parameters are last-dose values.

Race

The effect of race on fraseride pharmacokinetics has not been studied.

Hepatic Impairment

The effect of hepatic impairment on fraseride pharmacokinetics has not been studied. Caution should be exercised in the administration of fraseride tablets USP to those patients with liver function abnormalities, as fraseride is metabolized extensively in the liver.

Renal Impairment

No dosage adjustment is necessary in patients with renal impairment. In patients with chronic renal impairment, who received a single dose of ¹⁴C-fraseride over 24 hours, mean plasma concentration, half-life, and protein binding after a single dose of ¹⁴C-fraseride were similar to values obtained in healthy volunteers. Urinary excretion of metabolites was decreased in patients with renal impairment. This decrease was associated with an increase in total excreted metabolites. Plasma concentrations of metabolites were significantly higher in patients with renal impairment (based on a 60% increase in total excreted AUC). However, fraseride has been well tolerated in BPH patients with normal renal function receiving up to 10 mg/day for 12 weeks, where exposure of these patients to metabolites would presumably be much greater.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No evidence of a mutagenic effect was observed in a 24-month study in Sprague-Dawley rats receiving doses of fraseride up to 100 mg/kg/day in males and 200 mg/kg/day in females. These doses produced respective systemic exposures in rats of 111 and 274 times those observed in man receiving the recommended human dose of 5 mg/day. All exposure calculations were based on calculated AUC₀₋₂₄ for animals and mean AUC₀₋₂₄ for man (0.4 mg·h/mL).

In a 19-month carcinogenicity study in CD-1 mice, a statistically significant (p<0.05) increase in the incidence of nodular Leydig cell adenomas was observed at 200 times the human exposure (200 mg/kg/day). In mice at 25 times the human exposure, estimated (20 mg/kg/day) and in rats at 30 times the human exposure (40 mg/kg/day) an increase in the incidence of Leydig cell adenomas was observed. A 4-fold increase in the incidence of nodular changes in the Leydig cells and an increase in serum LH levels (2- to 3-fold above control) has been demonstrated in both sexes treated with high doses of fraseride. No nodular changes were seen in either rats or dogs treated with fraseride for 1 year at 30 and 350 times (20 mg/kg/day and 45 mg/kg/day, respectively) or in mice treated for 6 months at 25 times the human exposure, estimated (20 mg/kg/day).

No evidence of mutagenesis was observed in an *in vitro* bacterial mutagenesis assay, a mammalian cell mutagenesis assay, or in an *in vivo* alkaline elution assay. In an *in vitro* chromosome aberration assay, using Chinese hamster ovary cells, there was a slight increase in chromosome aberrations. These concentrations corresponded to 4000 to 5000 times the peak plasma levels in man given a total dose of 5 mg. In an *in vivo* chromosome aberration assay in mice, no treatment-related increase in chromosome aberrations was observed with fraseride at the maximum tolerated dose of 250 mg/kg/day (228 times the human exposure) as determined in the carcinogenicity studies.

In sexually mature male rabbits treated with fraseride at 543 times the human exposure (60 mg/kg/day) for up to 12 weeks, no effect on fertility, sperm count, or ejaculate volume was seen. In sexually mature male rats treated with 61 times the human exposure (80 mg/kg/day), there were no significant effects on fertility after 10 or 12 weeks of treatment. In female rats treated with 61 or 121 times the human exposure, there was an apparent decrease in fertility. Accidental and an associated significant decrease in the weights of the seminal vesicles and prostate. Similar effects were reversible within 4 weeks of discontinuation of treatment. Rat sperm motility was affected on testes or on mating performance has been seen in rats or rabbits. This decrease in fertility in fraseride-treated rats is secondary to the effect on accessory sex organs (prostate and seminal vesicles) and is similar to that seen in a seminal plug. The seminal plug is essential for normal fertility in rats and is not relevant in man.

14 CLINICAL STUDIES

14.1 Monotherapy

Fraseride tablets USP 5 mg/day was initially evaluated in patients with symptoms of BPH and enlarged prostates by digital rectal examination in the 1-year, placebo-controlled, randomized, double-blind studies and their 5-year open extensions.

Fraseride tablets USP was further evaluated in a long-term efficacy and safety study, a double-blind, randomized, placebo-controlled, 4-year, multicenter study, 3040 patients between the ages of 45 and 78, with moderate to severe symptoms of BPH and an enlarged prostate (total prostatic glandular volume, were randomized into the fraseride (5 mg/day) or placebo (5 mg/day) groups. All patients were evaluable for efficacy. 1883 patients completed the 4-year study (100% in the fraseride group, 85% in the placebo group).

Effect on Symptom Score

Symptoms were quantified using a score similar to the American Urological Association Symptom Score, which evaluated both obstructive symptoms (equipment of size and force of stream, sensation of incomplete bladder emptying, delayed or interrupted urination) and irritative symptoms (urgency, daytime frequency, need to strain on toilet, flow of urine) by rating on a 0 to 5 scale for six symptoms and a 0 to 4 scale for one symptom, for a total possible score of 34.

Patients in a long-term efficacy and safety study had moderate to severe symptoms of baseline (mean of approximately 15 points on a 0 to 34 point scale). Patients randomized to fraseride tablets USP who remained on therapy for 4 years had a mean (± SD) decrease in symptom score of 3.1 (± 3.0) points compared with 1.3 (± 3.5) points in the placebo group. (See Figure 1.) A statistically significant improvement in symptom score was evident at 1 year in patients treated with fraseride tablets USP (placebo 1.3 vs -1.6), and this improvement continued through Year 4.

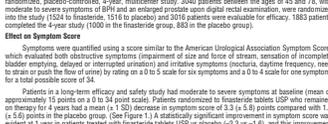


Figure 1: Symptom Score in a Long-Term Efficacy and Safety Study

Event	Placebo N=727 (N%)	Fraseride N=726 (N%)	Relative Risk*	95% CI	p Value†
All Treatment Failures	37.1 (5.1)	26.2 (3.6)	0.68	(0.57 to 0.79)	<0.001
Surgical Interventions for BPH	10.1 (1.4)	4.6 (0.6)	0.45	(0.32 to 0.61)	<0.001
Two consecutive symptom score	9.2 (1.2)	6.7 (0.9)			
Bladder Stone	0.4 (0.05)	0.5 (0.07)			
Incontinence	2.1 (0.3)	1.7 (0.2)			
Rectal Prolapse	0.2 (0.03)	0.6 (0.08)			
UTI	5.7 (0.8)	4.9 (0.7)			
Discontinuation due to worsening of BPH, lack of improvement, or to receive other medical treatment	21.8 (3.0)	13.3 (1.8)			

* patients with multiple events may be counted more than once for each type of event

† Compared with placebo, fraseride tablets USP was associated with a significantly lower need for BPH-related surgery. Compared with placebo, fraseride tablets USP was associated with a significantly lower risk for surgery (1.0% for placebo vs 4.4% for fraseride tablets USP; 50% reduction in risk, 95% CI, 37 to 60%) (see Figure 2).

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Results seen in earlier studies were comparable to those seen in a long-term efficacy and safety study. Although an early improvement in urinary symptoms was seen in some patients, a therapeutic trial of at least 6 months was generally necessary to assess whether a beneficial response in symptom relief had been achieved. The improvement in BPH symptoms was seen during the first year and maintained throughout an additional 5 years of open extension studies.

Effect on the Need for Surgery

In a long-term efficacy and safety study, efficacy was also assessed by evaluating treatment failures. Treatment failure was prospectively defined as BPH-related urological events or clinical deterioration, lack of improvement and/or the need for alternative therapy. BPH-related urological events were defined as urological surgical interventions and acute urinary retention requiring catheterization. Complete event information was available for 92% of the patients. The following table summarizes the results.

Event	Placebo N=727 (N%)	Fraseride N=726 (N%)	Relative Risk*	95% CI	p Value†
All Treatment Failures	37.1 (5.1)	26.2 (3.6)	0.68	(0.57 to 0.79)	<0.001
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Incontinence	2.1 (0.3)	1.7 (0.2)			
Rectal Prolapse	0.2 (0.03)	0.6 (0.08)			
UTI	5.7 (0.8)	4.9 (0.7)			
Discontinuation due to worsening of BPH, lack of improvement, or to receive other medical treatment	21.8 (3.0)	13.3 (1.8)			

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