

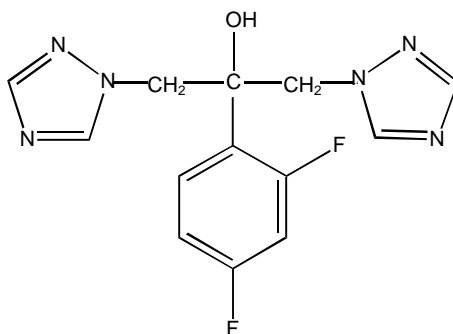
## **APPROVED PRODUCT INFORMATION**

### **DIFLUCAN ONE**

Fluconazole

Fluconazole is a bis-triazole:

2-(2,4-difluorophenyl)-1,3-bis(1H-1,2,4-triazol-1-yl)-2-propanol. It has the following structural formula:



CAS Registry Number 86386-73-4

C<sub>13</sub>H<sub>12</sub>F<sub>2</sub>N<sub>6</sub>O

Fluconazole is a white to off-white crystalline powder which is sparingly soluble in water and saline. It has a molecular weight of 306.3.

### **DESCRIPTION**

DIFLUCAN ONE is presented as a blue capsule printed with Flu-150.

Each DIFLUCAN ONE capsule contains 150 mg fluconazole.

DIFLUCAN ONE also contains: gelatin, lactose, maize starch, colloidal anhydrous silica, magnesium stearate, sodium lauryl sulfate, titanium dioxide (E171), patent blue V (E131) and TekPrint SW-9008 black ink.

### **PHARMACOLOGY**

#### **Pharmacodynamics**

Fluconazole is a member of the bis-triazole class of antifungal agents. Fluconazole is a highly selective inhibitor of fungal cytochrome P-450 sterol C-14 alpha demethylation. Mammalian cell demethylation is much less sensitive to fluconazole inhibition. The subsequent loss of normal sterols correlates with the accumulation of 14 alpha-methyl sterols in fungi and may be responsible for the fungistatic activity of fluconazole. Interaction studies with antipyrine indicate that single or multiple doses of fluconazole 50mg do not affect its metabolism.

#### **Pharmacokinetics**

##### **Absorption**

In normal volunteers, the bioavailability of orally administered fluconazole is over 90% compared with intravenous administration. Oral administration is not affected by concomitant food intake. In fasted normal volunteers, peak plasma concentrations occur between 1 and 2 hours post dose with a terminal plasma elimination half-life of approximately 30 hours (range

20-50 hours). The apparent volume of distribution approximates to total body water. Plasma protein binding is low (11-12%).

### **Distribution**

Fluconazole has been found to achieve good penetration into all tissues and body fluids studied. The levels of fluconazole in saliva and sputum are similar to plasma levels.

### **Metabolism and Excretion**

The major route of excretion is renal, with approximately 80% of the administered dose appearing in the urine as unchanged drug. About 11% of the dose is excreted in the urine as metabolites. The pharmacokinetics of fluconazole are markedly affected by reduction in renal function, however, no adjustments in single-dose therapy are necessary. There is an inverse relationship between the elimination half-life and creatinine clearance.

The long plasma elimination half-life provides the basis for single dose therapy for vaginal candidiasis.

There are differences in the pharmacokinetics between adults and children, with children after the neonatal period, generally having faster elimination rate and larger volume of distribution than adults.

## **MICROBIOLOGY**

Fluconazole administered orally or intravenously was active in a variety of animal models of fungal infections using standard laboratory strains of fungi.

Fluconazole exhibits *in vitro* activity against *Cryptococcus neoformans* and *Candida* spp. Activity has been demonstrated *in vivo* in normal and immunocompromised animals against infections with *Candida* spp, including systemic candidiasis and in normal animals with *C. neoformans*, including intracranial infections. One case of cross resistance of *Candida* to fluconazole in a patient (non-HIV) previously treated with ketoconazole has been reported. The efficacy of fluconazole *in vivo* is greater than would be apparent from *in vitro* testing against the above mentioned fungi.

Concurrent administration of fluconazole and amphotericin B in infected normal and immunocompromised mice showed antagonism of the two drugs in systemic infection with *Aspergillus fumigatus*. The clinical significance of results obtained in these studies is unknown.

## **CLINICAL TRIALS**

This information is not available.

## **INDICATIONS**

DIFLUCAN ONE is indicated for the treatment of vaginal candidiasis

## **CONTRAINDICATIONS**

Fluconazole should not be used in patients with known sensitivity to fluconazole; to relatedazole compounds; or to any of its excipients.

Co-administration of other drugs known to prolong the QT interval and which are metabolised via the enzyme CYP3A4 such as cisapride, astemizole, erythromycin, pimozide and quinidine are contraindicated (see PRECAUTIONS).

Coadministration of terfenadine is contraindicated in patients receiving fluconazole at multiple doses of 400mg per day or higher based upon results of a multiple dose interaction study.

## **PRECAUTIONS**

Fluconazole should be administered with caution to patients with liver dysfunction.

Fluconazole has been associated with rare cases of serious hepatic toxicity including fatalities, primarily in patients with serious underlying medical conditions. In cases of fluconazole-associated hepatotoxicity, no obvious relationship to total daily dose, duration of therapy, sex or age of patient has been observed. DIFLUCAN ONE should not be used again if clinical signs and symptoms consistent with liver disease develop that may be attributable to fluconazole (see ADVERSE REACTIONS).

Patients have rarely developed exfoliative cutaneous reactions, such as Stevens-Johnson Syndrome and toxic epidermal necrolysis, during treatment with fluconazole. AIDS patients are more prone to the development of serious cutaneous reactions to many drugs. Fluconazole should not be used again if a rash develops which is attributable to fluconazole.

In rare cases, as with other azoles, anaphylaxis has been reported.

Some azoles, including fluconazole, have been associated with prolongation of the QT interval on the electrocardiogram. During post-marketing surveillance, there have been very rare cases of QT prolongation and torsade de pointes in patients taking fluconazole. These reports included seriously ill patients with multiple confounding risk factors, such as structural heart disease, electrolyte abnormalities and concomitant medications that may have been contributory (see ADVERSE REACTIONS).

The coadministration of fluconazole at doses lower than 400 mg per day with terfenadine should be carefully monitored.

Fluconazole is a potent CYP2C9 inhibitor and a moderate CYP3A4 inhibitor. Fluconazole treated patients who are concomitantly treated with drugs with a narrow therapeutic window metabolized through CYP2C9 and CYP3A4 should be monitored.

Fluconazole should be administered with caution to patients with these potentially proarrhythmic conditions (see ADVERSE REACTIONS).

Diflucan capsules contain lactose and should not be given to patients with rare hereditary problems of galactose intolerance, Lapp lactase deficiency or glucose-galactose malabsorption.

## **Effects On Fertility**

Fluconazole did not affect the fertility of male or female rats treated orally with daily doses of 5, 10 or 20 mg/kg or with parenteral doses of 5, 25 or 75 mg/kg, although the onset of parturition

was slightly delayed at 20 mg/kg p.o. In an intravenous perinatal study in rats at 5, 20 and 40 mg/kg, dystocia and prolongation of parturition were observed in a few dams at 20 mg/kg and 40 mg/kg, but not at 5 mg/kg. The disturbances in parturition were reflected by a slight increase in the number of still-born pups and decrease of neonatal survival at these dose levels. The effects on parturition in rats are consistent with the species specific oestrogen-lowering property produced by high doses of fluconazole. Such a hormone change has not been observed in women treated with fluconazole.

### **Use During Pregnancy**

Category D. There are no adequate and well controlled studies in pregnant women. There have been reports of multiple congenital abnormalities in infants whose mothers were being treated for 3 or more months with high dose (400-800 mg/day) fluconazole therapy for candidiomyosis. The relationship between fluconazole use and these events is unclear.

Fluconazole should not be used in women who are pregnant, or in women of childbearing potential unless adequate contraception is employed.

### **Use During Lactation**

Fluconazole has been found in human breast milk at concentrations similar to plasma, hence its use in nursing mothers is not recommended.

### **Paediatric Use and In The Elderly**

DIFLUCAN ONE is not recommended for use in children. No adjustments in single-dose therapy are necessary in elderly patients with minor to moderate renal impairment.

### **Genotoxicity**

Fluconazole, with or without metabolic activation, was negative in tests for mutagenicity in 4 strains of *Salmonella typhimurium* and in the mouse lymphoma system. Cytogenetic studies *in vivo* and *in vitro* showed no evidence of chromosomal mutations.

### **Carcinogenicity**

Fluconazole showed no evidence of carcinogenic potential in mice and rats treated orally for 24 months at doses of 2.5, 5 or 10 mg/kg/day (approximately 2-7 x recommended human dose). Male rats treated with 5 and 10 mg/kg/day had an increased incidence of hepatocellular adenomas.

### **Effects On Laboratory Tests**

This information is not available.

## **INTERACTIONS WITH OTHER MEDICINES**

The relevance of the following drug interactions to single-dose fluconazole is unknown. Patients on other medications should be advised to consult their doctor or pharmacist before starting fluconazole.

Fluconazole is an inhibitor of the cytochrome P450 system, particularly the CYP 2C and to a lesser extent the CYP 3A isoforms. There are possibilities that other drugs may affect the metabolism of fluconazole and that fluconazole may affect the metabolism of other drugs. *In vitro* studies conducted in human hepatic microsomes, demonstrate that the extent of inhibition

of CYP 3A isoforms is lowest with fluconazole, when compared with ketoconazole and itraconazole.

*Hydrochlorothiazide.* Concomitant oral administration of 100 mg fluconazole and 50 mg hydrochlorothiazide for 10 days in normal volunteers resulted in an increase of 41% in  $C_{max}$  and an increase of 43% in AUC of fluconazole, compared to fluconazole given alone. An effect of this magnitude should not necessitate a change in the fluconazole dose regimen in subjects receiving diuretics, although the prescriber should bear it in mind.

*Rifampicin.* Administration of a single oral 200 mg dose of fluconazole after chronic rifampicin administration resulted in a 25% decrease in AUC and a 20% shorter half-life of fluconazole in normal volunteers. Depending on clinical circumstances, an increase of the dose of fluconazole should be considered when it is administered with rifampicin.

*Alfentanil.* A study observed a reduction in clearance and distribution volume as well as prolongation of  $T_{1/2}$  of alfentanil following concomitant treatment with fluconazole. A possible mechanism of action is fluconazole's inhibition of CYP3A4. Dosage adjustment of alfentanil may be necessary.

*Amitriptyline, nortriptyline.* Fluconazole increases the effect of amitriptyline and nortriptyline. 5-nortriptyline and/or S-amitriptyline may be measured at initiation of the combination therapy and after one week. Dosage of amitriptyline/nortriptyline should be adjusted, if necessary.

*Amphotericin B.* Concurrent administration of fluconazole and amphotericin B in infected normal and immunosuppressed mice showed the following results: a small additive antifungal effect in systemic infection with *C. albicans*, no interaction in intracranial infection with *Cryptococcus neoformans*, and antagonism of the two drugs in systemic infection with *A. fumigatus*. The clinical significance of results obtained in these studies is unknown.

*Anticoagulants.* In an interaction study, fluconazole increased the prothrombin time (12%) after warfarin administration in healthy males. In post-marketing experience, as with other azole antifungals, bleeding events (bruising, epistaxis, gastrointestinal bleeding, hematuria, and melena) have been reported, in association with increases in prothrombin time in patients receiving fluconazole concurrently with warfarin. Prothrombin time in patients receiving coumarin-type anticoagulants should be carefully monitored. Dose adjustment of warfarin may be necessary.

*Astemizole.* Concomitant administration of fluconazole with astemizole may decrease the clearance of astemizole. Resulting increased plasma concentrations of astemizole can lead to QT prolongation and rare occurrences of *torsade de pointes*. Coadministration of fluconazole and astemizole is contraindicated (see CONTRAINDICATIONS).

*Azithromycin.* An open-label, randomized, three-way crossover study in 18 healthy subjects assessed the effect of a single 1200 mg oral dose of azithromycin on the pharmacokinetics of a single 800 mg oral dose of fluconazole as well as the effects of fluconazole on the pharmacokinetics of azithromycin. There was no significant pharmacokinetic interaction between fluconazole and azithromycin.

*Carbamazepine.* Fluconazole inhibits the metabolism of carbamazepine and an increase in serum carbamazepine of 30% has been observed. There is a risk of developing carbamazepine toxicity. Dosage adjustment of carbamazepine may be necessary depending on concentration measurements/effect.

*Calcium Channel Blockers.* Certain calcium channel antagonists (nifedipine, isradipine, amlodipine, verapamil and felodipine) are metabolized by CYP3A4. Fluconazole has the

potential to increase the systemic exposure of the calcium channel antagonists. Frequent monitoring for adverse events is recommended.

*Celecoxib.* During concomitant treatment with fluconazole (200 mg daily) and celecoxib (200 mg) the celecoxib C<sub>max</sub> and AUC increased by 68% and 134%, respectively. Half of the celecoxib dose may be necessary when combined with fluconazole.

*Cisapride.* Cardiac events including torsades de pointes have been reported in patients receiving fluconazole and cisapride concomitantly. A controlled study found that concomitant fluconazole 200mg once daily and cisapride four times a day yielded a significant increase in cisapride plasma levels and prolongation of QTc interval. Coadministration of cisapride is contraindicated in patients receiving fluconazole (see CONTRAINDICATIONS).

*Cyclosporin.* A kinetic study in renal transplant patients found fluconazole 200 mg daily to slowly increase cyclosporin concentrations. However, in another multiple dose study with 100 mg daily, fluconazole did not affect cyclosporin levels in patients with bone marrow transplants. Cyclosporin plasma concentration monitoring in patients, with or without impaired renal function, receiving fluconazole is recommended.

*Cyclophosphamide.* Combination therapy with cyclophosphamide and fluconazole results in an increase in serum bilirubin and serum creatinine. The combination may be used while taking increased consideration to the risk of increased serum bilirubin and serum creatinine.

*Erythromycin.* Concomitant use of fluconazole and erythromycin has the potential to increase the risk of cardiotoxicity (prolonged QT interval, torsades de pointes) and consequently sudden heart death. Coadministration of fluconazole and erythromycin is contraindicated (see CONTRAINDICATIONS).

*Fentanyl.* One fatal case of possible fentanyl fluconazole interaction was reported. The author judged that the patient died from fentanyl intoxication. Furthermore, in a randomized crossover study with twelve healthy volunteers it was shown that fluconazole delayed the elimination of fentanyl significantly. Elevated fentanyl concentration may lead to respiratory depression.

*Halofantrine.* Fluconazole can increase halofantrine plasma concentration due to an inhibitory effect on CYP3A4.

*HMG-CoA reductase inhibitors.* The risk of myopathy and rhabdomyolysis increases when fluconazole is coadministered with HMG-CoA reductase inhibitors metabolised through CYP3A4, such as atorvastatin and simvastatin, or through CYP2C9, such as fluvastatin. If concomitant therapy is necessary, the patient should be observed for symptoms of myopathy and rhabdomyolysis and creatinine kinase should be monitored. HMG-CoA reductase inhibitors should be discontinued if a marked increase in creatinine kinase is observed or myopathy/rhabdomyolysis is diagnosed or suspected.

*Losartan.* Fluconazole inhibits the metabolism of losartan to its active metabolite (E-31 74) which is responsible for most of the angiotensin II-receptor antagonism which occurs during treatment with losartan. Patients should have their blood pressure monitored continuously.

*Methadone.* Fluconazole may enhance the serum concentration of methadone. Dosage adjustment of methadone may be necessary.

*Non-steroidal anti-inflammatory drugs (NSAIDs).* The C<sub>max</sub> and AUC of flurbiprofen were increased by 23% and 81%, respectively, when coadministered with fluconazole compared to administration of flurbiprofen alone. Similarly, the C<sub>max</sub> and AUC of the pharmacologically active isomer [S-(+)-ibuprofen] were increased by 15% and 82%, respectively, when fluconazole was coadministered with racemic ibuprofen (400 mg) compared to administration of racemic ibuprofen alone. Although not specifically studied,

fluconazole has the potential to increase the systemic exposure of other NSAIDs that are metabolized by CYP2C9 (e.g. naproxen, lornoxicam, meloxicam, diclofenac). Frequent monitoring for adverse events and toxicity related to NSAIDs is recommended. Adjustment of dosage of NSAIDs may be needed

*Oral Contraceptives.* Fluconazole at a dose of 50 mg for 10 days decreased the AUC for ethinyloestradiol by 16%, but values for levonorgestrel were unchanged. There were no relevant effects on hormone level in the 50 mg fluconazole. At 200 mg daily, the AUCs of ethinylestradiol and levonorgestrel were increased 40% and 24%, respectively. Multiple dose use of fluconazole at these doses is unlikely to have an effect on the efficacy of the combined oral contraceptive

*Oral Hypoglycaemic Agents.* The effects of fluconazole on the pharmacokinetics of the sulphonylurea oral hypoglycaemic agents tolbutamide, glipizide and glibenclamide were examined in three placebo-controlled crossover studies in normal volunteers. All subjects received the sulphonylurea alone and following treatment with 100 mg of fluconazole as a single daily oral dose for 7 days. Fluconazole administration resulted in significant increases in  $C_{max}$  and AUC of the sulphonylurea. Several subjects in these three studies experienced symptoms consistent with hypoglycaemia. In the glibenclamide study, several volunteers required oral glucose treatment. As fluconazole is a potent inhibitor of CYP2C8 and CYP2C9, it may also interact with other sulphonylureas (eg. glimepiride and gliclazide) and the thiazolidinediones (eg. pioglitazone and rosiglitazone), which are metabolised by these enzymes. When fluconazole and sulphonylureas or thiazolidinediones are co-administered, blood glucose concentrations should be monitored carefully. The possibility of a hypoglycemic episode should be borne in mind.

*Phenytoin.* Concomitant administration of oral fluconazole (200 mg) with phenytoin at steady state resulted in an average increase of 75% of phenytoin AUC values in normal volunteers. Careful monitoring of phenytoin concentrations in patients receiving fluconazole and phenytoin is recommended.

*Pimozide.* Although not studied *in vitro* or *in vivo*, concomitant administration of fluconazole with pimozide may result in inhibition of pimozide metabolism. Increased pimozide plasma concentrations can lead to QT prolongation and rare occurrences of torsade de pointes. Co-administration of fluconazole and pimozide is contraindicated (see CONTRAINDICATIONS).

*Prednisone.* There was a case report that a liver-transplanted patient treated with prednisone developed acute adrenal cortex insufficiency when a three month therapy with fluconazole was discontinued. The discontinuation of fluconazole presumably caused an enhanced CYP3A4 activity which led to increased metabolism of prednisone. Patients on long-term treatment with fluconazole and prednisone should be carefully monitored for adrenal cortex insufficiency when fluconazole is discontinued.

*Quinidine.* Although not studied *in vitro* or *in vivo*, concomitant administration of fluconazole with quinidine may result in inhibition of quinidine metabolism. Use of quinidine has been associated with QT prolongation and rare occurrences of *torsades de pointes*. Co-administration of fluconazole and quinidine is contraindicated (see CONTRAINDICATIONS).

*Short acting benzodiazepines.* Studies in human subjects have reported changes in midazolam pharmacokinetics and clinical effects that are dependent on dosage and route of administration. Single doses of fluconazole 150 mg resulted in modest increases in midazolam concentrations and psychomotor effects following oral administration of 10 mg that may not be clinically significant. At doses used to treat systemic mycoses, fluconazole resulted in substantial increases in midazolam concentrations and psychomotor effects following oral administration of midazolam 7.5 mg, but only modest increases that are not likely to be clinically significant following intravenous infusion of midazolam 0.05 mg/kg. If

concomitant benzodiazepine therapy is necessary in patients being treated with fluconazole, consideration should be given to decreasing the benzodiazepine dosage, and the patients should be appropriately monitored.

*Rifabutin.* There have been reports that an interaction exists when fluconazole is administered concomitantly with rifabutin, leading to increased serum levels of rifabutin. There have been reports of uveitis in patients to whom fluconazole and rifabutin were coadministered. Patients receiving rifabutin and fluconazole concomitantly should be carefully monitored.

*Saquinavir.* Fluconazole increases the AUC of saquinavir with approximately 50%, C<sub>max</sub> with approximately 55% and decreases clearance of saquinavir with approximately 50% due to inhibition of saquinavir's hepatic metabolism by CYP3A4 and inhibition of P-glycoprotein. Dosage adjustment of saquinavir may be necessary.

*Sirolimus.* Fluconazole increases plasma concentrations of sirolimus presumably by inhibiting the metabolism of sirolimus via CYP3A4 and P-glycoprotein. This combination may be used with a dosage adjustment of sirolimus depending on the effect/concentration measurements.

*Sulfonylureas.* Fluconazole has been shown to prolong the serum half-life of concomitantly administered oral sulfonylureas (e.g., chlorpropamide, glibenclamide, glipizide, tolbutamide) in healthy volunteers. Frequent monitoring of blood glucose and appropriate reduction of sulfonylurea dosage is recommended during coadministration.

*Tacrolimus.* There have been reports that an interaction exists when fluconazole is administered concomitantly with tacrolimus, leading to increased serum levels of tacrolimus. There have been reports of nephrotoxicity in patients to whom fluconazole and tacrolimus were coadministered. Patients receiving tacrolimus and fluconazole concomitantly should be carefully monitored.

*Terfenadine.* Because of the occurrence of serious cardiac dysrhythmias secondary to prolongation of the QTc interval in patients receiving azole antifungals in conjunction with terfenadine, interaction studies have been performed. One study at a 200 mg daily dose of fluconazole failed to demonstrate a prolongation in QTc interval. Another study at a 400 mg and 800 mg daily dose of fluconazole demonstrated that fluconazole taken in doses of 400 mg per day or greater significantly increases plasma levels of terfenadine when taken concomitantly. The combined use of fluconazole at doses of 400 mg or greater with terfenadine is contraindicated (see CONTRAINDICATIONS). The coadministration of fluconazole at doses lower than 400 mg per day with terfenadine should be carefully monitored.

*Theophylline.* In a placebo controlled interaction study, the administration of fluconazole 200 mg for 14 days resulted in an 18% decrease in the mean plasma clearance of theophylline. Patients who are receiving high dose theophylline or who are otherwise at increased risk of theophylline toxicity should be observed for signs of theophylline toxicity while receiving fluconazole, and therapy modified appropriately if signs of toxicity develop.

*Tofacitinib.* Exposure is increased when tofacitinib is coadministered with medications that result in both moderate inhibition of CYP3A4 and potent inhibition of CYP2C19.

*Triazolam.* Fluconazole increases the AUC of triazolam (single dose) by approximately 50%, C<sub>max</sub> with 20-32% and increases t<sub>1/2</sub> by 25-50 % due to the inhibition of metabolism of triazolam. Dosage adjustments of triazolam may be necessary.



*Vinca Alkaloids.* Although not studied, fluconazole may increase the plasma levels of the vinca alkaloids (e.g., vincristine and vinblastine) and lead to neurotoxicity, which is possibly due to an inhibitory effect on CYP3A4.

*Vitamin A.* Based on a case-report in one patient receiving combination therapy with all-trans-retinoid acid (an acid form of vitamin A) and fluconazole, CNS related undesirable effects have developed in the form of pseudotumour cerebri, which disappeared after discontinuation of fluconazole treatment. This combination may be used but the incidence of CNS related undesirable effects should be borne in mind.

*Voriconazole.* (CYP2C9, CYP2C19 and CYP3A4 inhibitor): Concurrent administration of oral voriconazole (400 mg Q12h for 1 day, then 200 mg Q12h for 2.5 days) and oral fluconazole (400 mg on day 1, then 200 mg Q24h for 4 days) to 6 healthy male subjects resulted in an increase in C<sub>max</sub> and AUC of voriconazole by an average of 57% (90% CI: 20%, 107%) and 79% (90% CI: 40%, 128%), respectively. In a follow-on clinical study involving 8 healthy male subjects, reduced dosing and/or frequency of voriconazole and fluconazole did not eliminate or diminish this effect. Concomitant administration of voriconazole and fluconazole at any dose is not recommended.

*Warfarin.* A single dose of warfarin (15 mg) given to normal volunteers, following 14 days of orally administered fluconazole (200 mg) resulted in a 12% increase in the prothrombin time response (area under the prothrombin time-time curve). One of 13 subjects experienced a 2-fold increase in his prothrombin time response. In post-marketing experience, as with other azole antifungals, bleeding events (bruising, epistaxis, gastrointestinal bleeding, hematuria and melena) have been reported, in association with increases in prothrombin time in patients receiving fluconazole concurrently with warfarin. Careful monitoring of prothrombin time in patients receiving fluconazole and coumarin-type anticoagulants is recommended.

*Zidovudine.* The AUC of zidovudine significantly increased (74%) during co-administration with fluconazole. Patients receiving this combination should be monitored for the development of zidovudine-related adverse reactions.

*Gastrointestinal Drugs.* In fasted normal volunteers, absorption of orally administered fluconazole does not appear to be affected by agents that increase gastric pH. Single dose administration of fluconazole (100 mg) with cimetidine (400 mg) resulted in a 13% reduction in AUC and 21% reduction in C<sub>max</sub> of fluconazole. Administration of an antacid containing aluminium and magnesium hydroxides immediately prior to a single dose of fluconazole (100 mg) had no effect on the absorption or elimination of fluconazole.

Physicians should be alert to the potential for drug-drug interactions, with other drugs for which pharmacokinetic drug-drug interaction studies have not been conducted.

## **ADVERSE EFFECTS**

Fluconazole is generally well tolerated.

The most common undesirable effects observed during vaginal candidiasis clinical trials and associated with fluconazole with an incidence > 1% are:

**Nervous System Disorders:** Headache.

**Gastrointestinal Disorders:** Nausea, abdominal pain, diarrhoea, dyspepsia.

In addition, the uncommon undesirable effects observed during vaginal candidiasis clinical trials associated with fluconazole are:

**Dermatological:** Pruritus, genital pruritus, rash, erythematous rash, dry skin, abnormal skin odour, urticaria.

**Nervous System Disorders:** Dizziness, flushing, dry mouth, vertigo, hyperkinesia, hypertonia, taste perversion

**Gastrointestinal Disorders:** Vomiting, anorexia, flatulence, constipation, loose stools, constipation

**Metabolic:** Thirst

**Psychiatric:** Insomnia, nervousness, female sexual dysfunction

**Reproductive:** intermenstrual bleeding, dysmenorrhoea, leucorrhoea, menorrhagia, uterine spasm, vaginal disorder

**Respiratory:** Pharyngitis

**Special Senses:** Abnormal vision, visual field defect

**Urinary:** Polyuria, renal pain

**General:** Fatigue, hot flushes, malaise, back pain, herpes simplex, pain, rigors

The following adverse events have occurred during experience with overall fluconazole use:

**Blood and Lymphatic System Disorders:** Leukopenia including neutropenia and agranulocytosis, thrombocytopenia

**Cardiovascular Disorders:** QT prolongation, torsade de pointes (see PRECAUTIONS).

**Nervous System Disorders:** Seizures

**Immune System Disorders:** Anaphylaxis (including face oedema, angiodema, urticaria and pruritus)

**Metabolic and Nutritional Disorders:** Hypercholesterolemia, hypertriglyceridemia and hypokalemia.

**Hepatobiliary Disorders:** Hepatic failure, hepatitis, hepatocellular necrosis, jaundice

**Skin and Subcutaneous Tissue Disorders:** Alopecia, exfoliative skin disorders including Stevens-Johnson Syndrome and toxic epidermal necrolysis

## **DOSAGE AND ADMINISTRATION**

DIFLUCAN ONE is administered orally.

### **Use In Adults**

For vaginal candidiasis when topical therapy has failed, fluconazole 150 mg (DIFLUCAN ONE) should be administered as a single oral dose.

## **Use In Children**

Single dose fluconazole is not recommended for use in children under 18 years of age except under doctor supervision.

## **Use in Renal Impairment**

Fluconazole is predominantly excreted in the urine as unchanged drug. No adjustments in single-dose therapy are necessary in patients with minor to moderate renal impairment.

## **OVERDOSAGE**

There have been reports of overdosage with fluconazole, and in one case, a 42-year-old patient infected with human immunodeficiency virus developed hallucinations and exhibited paranoid behaviour after reportedly ingesting 8,200 mg of fluconazole. The patient was admitted to hospital, and his condition resolved within 48 hours.

In the event of overdosage, symptomatic treatment (with supportive measures and gastric lavage if necessary) should be undertaken.

Fluconazole is largely excreted in the urine; forced volume diuresis would probably increase the elimination rate. A three-hour haemodialysis session decreases plasma levels by approximately 50%.

For information on the management of overdose, contact the Poison Information Centre Australia 13 11 26

## **PRESENTATION**

150 mg light turquoise blue opaque cap and body, marked with FLU-150 - packs of 1.

Store below 30°C.

## **NAME AND ADDRESS OF SPONSOR**

Johnson & Johnson Pacific  
45 Jones Street  
Ultimo NSW 2007  
Australia

## **POISONS SCHEDULE OF THE MEDICINE**

Schedule 3

## **DATE OF FIRST INCLUSION IN THE AUSTRALIAN REGISTER OF THERAPEUTIC GOODS (ARTG)**

23<sup>rd</sup> April 2004

**DATE OF MOST RECENT AMENDMENT**

23<sup>rd</sup> July 2014