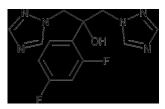
### Fluconazole Tablets

### DESCRIPTION

Fluconazole, USP the first of a new subclass of synthetic triazole antifungal agents, is available as tablets for oral administration.

Fluconazole, USP is designated chemically as 2,4-difluoro-1  $^{\prime}$ ,1  $^{\prime}$ -bis(1 H-1,2,4-triazol-1-ylmethyl)benzyl alcohol with an empirical formula of C  $_{13}$ H  $_{12}$ F  $_{2}$ N  $_{6}$ O and molecular weight of 306.27 g/mol. The structural formula is:



Fluconazole, USP is a white or almost white crystalline powder which is freely soluble in methanol; soluble in alcohol and in acetone; sparingly soluble in isopropanol and in chloroform; slightly soluble in water; very slightly soluble in toluene.

Liuconazole, Tablets, USP contain 50 mg, 100 mg, 150 mg, or 200 mg of fluconazole, USP and the following inactive ingredients; croscarmelose sodium, dibasic calcium phosphate anhydrous, PD&C Red No. 40, magnesium stearate, microcrystaline cellulose and povidone K3.

# CLINICAL PHARMACOLOGY

### Pharmacokinetics and Metabolism

The pharmacokinets properties of fluconazole are similar following administration by the intravenous or oral routes. In normal volunteers, the bloavailability of orally administered fluconazole is over 90% compared with intravenous administration. Bloequivalence was established between the 100 mg tablet and both suspension strengths when administered as a snige 200 mg dose.

Peak plasma concentrations (C  $_{max}$ ) in fasted normal volunteers occur between 1 and 2 hours with a terminal plasma elimination half-life of approximately 30 hours (range: 20 to 50 hours) after oral administration.

So nours) after or la administration. In fasted normal volunteers, administration of a single oral 400 mg dose of fluconazole leads to a mean C<sub>max</sub> of 6.72 mcg/ml, (range: 4.12 to 8.08 mcg/ml.) and after single oral doses of 50 to 400 mg, fluconazole plasma concentrations and area under the plasma concentration-time curve (AUC) are dose proportional. The C<sub>max</sub> and AUC data from a flood-effect study involving administration of fluconazol tablets to healthy volunteers under fasting conditions and with a high-fat meal indicated that exposure to the drug is not affected by flood. Therefore, fluconazole may be taken without regard to meas (see DOSAGE AND ADMINISTRATION).

without regard to meak (see **DOSAGE AND ADMINISTRATION**).

Steady-state concentrations are reached within 5 to 10 days following oral doses of 50 to 400 mg given once daily. Administration of a loading dose (on Bay 1) of twice the usual daily dose results in plasma concentrations close to steady-state by the second day. The apparent volume of distribution of fluconazole approximates that of total body water. Plasma protein briding is low (11 to 12%), Following either single- or multiple oral doses for up to 14 days, fluconazole penetrates into all body fluids studied (see table below). In normal volunteers, salve concentrations of fluconazole were equal to or slightly greater than plasma concentrations of fluconazole drice and of the dosing, in patients with bronchetzes, sputum concentrations of fluconazole following post dose. In patients with fungal meningbit, fluconazole concentrations in the corresponding plasma concentrations.

A single oral 150 mg dose of fluconazole administered to 27 patients penetrated into vaginal tissue, resulting in tissue: plasma ratios ranging from 0.94 to 1.14 over the first 48 hours following dosing.

A single oral 150 mg dose of fluconazole administered to 14 patients penetrated into vaginal fluid, resulting in fluid: plasma ratios ranging from 0.36 to 0.71 over the first 72 hours following dosing.

Tissue or Fluid	Ratio of FluconazoleTissue (Fluid)/Plasma Concentration *	
Cerebrospinal fluid	0.5 to 0.9	
Saliva	1	
Sputum	1	
Blister fluid	1	
Urine	10	
Normal skin	10	
Nails	1	
Blister skin	2	
Vaginal tissue	1	
Vaginal fluid	0.4 to 0.7	

- \* Relative to concurrent concentrations in plasma in subjects with normal renal
- function.

   † Independent of degree of meningeal inflammation.

In normal volunteers, fluconazole is cleared primarily by renal excretion, 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. There is an inverse relationship between the elimination half-life and creatinine clearance. The does of fluconazole may need to be reduced in paletins with impared renal function (see DOSAGE AND ADMINISTRATION). A 3-hour hemodalysis session decreases plasma concertifations by approximately 5 pagnosariately 5.

In normal volunteers, fluconazole administration (doses ranging from 200 mg to 400 mg once dally for up to 14 days) was associated with small and inconsistent effects on testosterone concentrations, and openous corticosteroid concentrations, and the adrenocorticotropic hormone (ACTH)-stimulated corticol response.

# Pharmacokinetics in Children

In children, the following pharmacokinetic data {Mean (% cv)} have been reported

Age	Dose	Clearance	Half-life	C max	Vdss
Studied		(mL/min/kg)	(Hours)	(mcg/mL)	(L/kg)
9 months to 13 years		0.40 (38%) N=14	25	2.9 (22%) N=16	
9 months to 13 years		0.51 (60%) N=15	19.5	9.8 (20%) N=15	
5 to 15 years	Multiple IV 2 mg/kg	0.49 (40%) N=4	17.4	5.5 (25%) N=5	0.722 (36%) N=4
5 to 15 years		N=5	15.2	11.4 (44%) N=6	0.729 (33%) N=5
5 to 15 years	Multiple IV 8 mg/kg	0.66 (31%) N=7	17.6	14.1 (22%) N=8	1.069 (37%) N=7

Clearance corrected for body weight was not affected by age in these studies. Mean body clearance in adults is reported to be 0.23 (17%) mL/min/kg.

In premature newborns (gestational age 26 to 29 weeks), the mean (% cv) clearance to within 36 hours of birth was 0.180 (33%, N=7) mtlmin/kg, which increased with time a mean of 0.218 (31%, N=9) mtlm/kg; at days letter and 0.331 (55%, N=4) mtlmin/kg 12 days later. Similarly, the half-let was 7.56 hours, which decreased with time to a mean of 53.2 hours sk days later and 46.6 hours 12 days later.

Pharmacokinetics in Elderly
Apharmacokinetic study was conducted in 22 subjects, 65 years of age or older
receiving a single 50 may or all dote of fluctonatole. Ten of these patients were
concomitantly receiving distretis. The Craps, was 1.54 mcgml. and to curred at 1.3
hours post dose. The mean AUC was 76.4 ± 20.3 mcg·hml., and the mean terminal
half life was 46.2 hours. These pharmacokinetic parameter values are higher than
anabogous values reported for normal young make volunteers. Coadministration of
duretics did not significantly alter the AUC or C. max. in addition, creatinize clearance (74
duretics did not significantly alter the AUC or G. max. in addition, creatinize clearance (74
energy of the control of the

# Drug Interaction Studies (See PRECAUTIONS, Drug Interactions)

Oral contraceptives: Oral contraceptives were administered as a single dose both before and after the oral administration of fluconazole 50 mg once daly for 10 days in 10 healthy women. There was no significant difference in ethnyl estradiol or kovnorgestrel. AUC after the administration of 50 mg of fluconazole. The mean increase in ethnyl estradiol AUC was 6% (range: -47 to 108%) and kevonorgestrel AUC increased 17% (range: -30 to 141%).

(range: -33 to 141%).

In a second study, twenty-five normal females received daily doses of both 200 mg fluconazole tablets or placebo for two, ten-day periods. The treatment cycles were one month apart with all subjects receiving fluconazole during one cycle and glacebo during normal part with all subjects receiving fluconazole during one cycle and glacebo during on contraceptive tablet containing becomergestre and eithing lestation were administrated on the final treatment day (Day 10) of both cycles. Following administration of 200 mg of fluconazole, the mean percentage increase of AUC for levenorgestred compared to placebo was 25% (range: -12 to 82%) and the mean percentage increase for eithiny estradoil compared to placebo was 38% (range: -11 to 101%). Both of these increases were statistically significantly different from placebo.

were statistically significantly different from placebo. A third study evaluated the potential interaction of once-weekly dosing of fluronazole 300 mg to 21 normal females taking an oral contraceptive containing ethinyl estradiol and norethindrone. In this placebo-controlled, double-bind, randomized, two-way crossover study carried out over three cycles of oral contraceptive treatment, fluconazole dosing resulted in small increases in the mean AUCs of ethinyl estradiol an norethindrone compared to similar placebo dosing. The mean AUCs of ethinyl estradiol and norethindrone increased by 24% (95% cl. range. 18 to 31%) and 13% (95% cl. range. 18 to 13%), respectively, relative to placebo. Fluconazole treatment did not caus a decrease in the ethinyl estradiol AUC of any individual subject in this study compared control of the control of t

(<5%) in 3 of the 21 subjects after fluconazole treatment.</p>
Creditine: Fluconazole 100 mg was administered as a single oral dose alone and two hours after a single dose of cimetidine 400 mg to sk healthy male volunteers. After the control of the contro

Antacid: Administration of Maalox ® (20 mL) to 14 normal male volunteers immediately prior to a single dose of fluconazole 100 mg had no effect on the absorption or elimination of fluconazole.

remination of niconazole. Hydrochbrothalacide: Concomitant oral administration of 100 mg fluconazole and 50 mg hydrochbrothalacide for 10 days in 13 normal volunteers resulted in a significant increase in fluconazole Mic and C. mas, Compared to fluconazole given alone. There was a mena + 50 increase in fluconazole AUC and C. mas of 45% ± 31% (range: 19 to 114%) and 43% ± 31% (range: 19 to 122%), respectively. These changes are attributed to a mean ± 5D reduction in renal clearance of 30% ± 12% (range: -10 to -50%).

reduction in renal clearance of 30% ± 12% (range. -10 to -50%).

R/Ampin: Administration of a single or al 200 mg dose of fluconazole after 15 days of rifampin administrated as 600 mg daly in eight healthy male volunteers resulted in a significant deresse in fluconazole AUC and a significant increase in apparent oral clearance of fluconazole AUC and significant therease in apparent oral clearance of fluconazole hand or 25%; high respect to 26% and 25% and 25

Los nuus (see PRECAUTIONS).

Warfarin: There was a significant increase in prothrombin time response (area under the prothrombin time-time curve) following a single dose of warfarin (15 mg) administered to 13 normal male volunteers following oral fluconazole 200 mg administered dayle for 14 days as compared to the administration of warfarin alone. There was a mean ± 50 increase in the prothrombin time response (area under the prothrombin time-time curve) of 7% ± 4% (rangle - 24 to 13%) (see PRECAUTIONS). Mean is based on data from 12 subjects as one of 13 subjects experienced a 2-fold increase in his prothrombin time response.

Phenytoin: Phenytoin AUC was determined after 4 days of phenytoin dusing (200 mg day), orally for 3 days followed by 250 mg introvenously for one dose) both with and whout the administration of fluctonazole (oral fluctonazole) coral meninstration of fluctonazole (200 mg dayl for 16 days) in 10 normal male volunteers. There was a significant increase in phenytoin AUC. The mean ±50 increase in phenytoin AUC may sally ±6 fluctonazole to the state of the significant increase in phenytoin AUC. The mean ±50 increase in phenytoin AUC may sally the significant increase in phenytoin AUC may sally sally

or prenytion (see PREAUTIONS).

Cycksporine: Cycksporine AUC and C max were determined before and after the administration of fluconazole 200 mg daily for 14 days in eight renal transplant patients who had been on cycksporine therapy for at least of months and on a stable cycksporine dose for at least 6 weeks. There was a significant increase in cycksporine dose for at least 6 weeks. There was a significant reduction in apparent oral clearance following the administration of fluconazole. The mean ± 5D increase in AUC was 25% ± 45% (range: 13 to 47%). The C may increased 60% ± 45% (range: 3.5 to 45% (range: 3.5 to 45% (range: 3.5 to 45% (range: 3.5 to 45%) (see PRECAUTIONS).

clearance decreased 45% ± 15% (range: -15 to -60%) (see PRECAUTIONS).

Zdovudine: Plasm zdiovudine concentrations were determined on two occasions (before and following fluconazole 200 mg daly for 15 days) in 13 volunteers with AIDS or ARC who were on a stable zdovudine dose for at keast two weeks. There was a significant increase in zdovudine AUC following the administration of fluconazole. The mean ± 50 Increase in AUC was 20% ± 32% (range -27 to 104%). The metabolike, GZDV, to parent drug ratio significantly decreased after the administration of fluconazole, from 7.6 ± 3.6 to 5.7 ± 2.2.

fluconazole, from 7.6 ± 3.6 to 5.7 ± 2.2. Theophylline in pharmacokinetics of theophylline were determined from a single intravenous dose of aminophyline (6 mg/kg) before and after the oral administration of fluconazole 200 mg day for 14 days in 16 normal male volunteers. There were significant increases in theophyline AUL C.  $_{\rm max}$ , and half-life with a corresponding decrease in Cearance. The mean  $\pm$  5D theophyline AUL C crassed 12%  $\pm$  16% (range 5 to 48%). The C  $_{\rm max}$  Increased 13%  $\pm$  17% (range  $\pm$  13 to 40%). Theophyline clearance decreased 16%  $\pm$  11% (range  $\pm$  2.0 %). The half-life of theophyline increased from 6.6  $\pm$  1.7 hours to 7.9  $\pm$  1.5 hours (see PRECAUTIONS).

Quindine Abhony not studed in Viero in vivo, concombant administration of fluconazole with quindline may result in inhibition of quindline metabolism. Use of quindline has been associated with Of prolongation and rare occurrences of torsade de pointes. Coadministration of fluconazole and quindline is contraindicated (see CONTRAINDICATIONSACI PRECAUTIONS).

CONTANIDICATIONS and PRECAUTIONS).

Oral hypoglycemics: The effects of fluconazole on the pharmacokinetics of the sulfonylurea oral hypoglycemic agents to bustamide, glipizide, and glyburide were evaluated in three placedo-controlled studies in normal volunteers. Als subjects received the sulfonylurea alone as a single dose and again as a single dose following the 2266 (47.78%) of fluconazole-treated patients and 1972 (41.3%) of placehor-treated patients experienced symptoms consistent with hypoglycemia (see PRECAUTIONS).

Tolbutamide: In 13 normal male volunteers, there was significant increase in tolbutamide (500 mg single dose) AUC and C  $_{\rm max}$  following the administration of fluconazole. There was a mean = 50 increase in tolbutamide AUC of 26% ± 9% (range: 12 to 39%). Tolbutamide C  $_{\rm max}$  increased 11% ± 9% (range: -6 to 27%) (see **PRECAUTIONS**).

Glipizide: The AUC and C  $_{max}$  of glipizide (2.5 mg single dose) were significantly increa following the administration of fluconazole in 13 normal male volunteers. There was a mean  $\pm$  50 increase in AUC of 49%  $\pm$  13% (range 2.7 to 73%) and an increase in C  $_{\rm f}$  of 19%  $\pm$  23% (range  $\cdot$ 11 to 79%) (see **PRECAUTIONS**).

Of June 12 An Wallet and C may of glyburide (5 mg single dose) were significantly increased following the administration of fluctonazole in 20 normal male volunteers. There increased 19% at 19% (range - 23 to 6 25%), Five subjects required are oldusteers increased 19% at 19% (range - 23 to 6 25%). Five subjects required are oldusteers following the ingestion of glyburide after 7 days of fluconazole administration (see

Rifabutin: There have been published reports that an interaction exists when flucon is administered concomitantly with rifabutin, leading to increased serum levels of rifabutin (see PRECAUTIONS).

Tacrolimus: There have been published reports that an interaction exists when fluconazole is administered concomitantly with tacrolimus, leading to increased serum levels of tacrolimus (see PRECAUTIONS).

levels of tacrolimus (see **PRECAUTIONS**).

Midzazlam: The effect of fluconascule on the pharmacokinetics and pharmacodynamics of midazolam was examined in a randomized, cross-over study in 12 volunteers. In the study, subjects in gested placebo or 400 ng fluconazole on Day 1 folowed by 200 mg daly from Day 2 to Day 6. In addition, a 7.5 mg dose of midazolam was orally ingested on the first day, 0.05 mg/kg was administered intravenously on the fourth day, and 7.5 mg orally on the sixth day, Fluconazole reduced the clearance of IV midazolam by 51%. On the first day of dosing, fluconazole increased the midazolam AUZ and C m<sub>max</sub> by 239% and 150%, respectively. On the sixth day of dosing, fluconazole increased midazolam AUZ explication for the sixth day of dosing, fluconazole increased the midazolam AUZ explication for the sixth day of dosing, fluconazole increased the midazolam AUZ explication for the sixth day of dosing, fluconazole increased the sixth day of dosing fluctonazole midazolam were sixther and the fluctuation of midazolam but not significantly affected following intravenous midazolam.

A second randomized, double-dummy, placebo-controlled, cross over study in three phases was performed to determine the effect of route of administration of fluconazole phases was performed to determine the effect of route of administration of fluconazole on the interaction between fluconazole and midazolam. In each phase the subjects were given oral fluconazole 400 mg and intravenous saline; oral placebo and intravenous fluconazole 400 mg; and oral placebo and IV saline. An oral dose of 7.5 mg of midazolam was ingested after fluconazole/logicebo. The AUC and C max of midazolam were significantly higher after oral than IV administration of fluconazole. Oral fluconazole increased the midazolam AUC and C max by 272% and 129%, respectively. IV fluconazole increased the midazolam AUC and c max by 272% and 129%, respectively. IV Both oral and IV fluconazole increased the midazolam AUC and C max by 272% and 129%, respectively. IV Both oral and IV fluconazole increased the midazolam AUC and C max by 244% and 793%, respectively. Both oral and IV fluconazole increased the pharmacodynamic effects of midazolam (see

Azihromycir: An open-label, randomized, three-way crossover study in 18 hei subjects assessed the effect of a single 800 mg oral dose of fluconazole on the pharmacokinetics of a single 1200 mg oral dose ozathromycin as well as the azihromych on the pharmacokinetics of fluconazole. There was no significant pharmacokinetic interaction between fluconazole and azihromycin.

Ovircionazole to Voricionazole is a substrate for both CPP2C9 and CPP3A4 isoenzymes. Concurrent administration of oral Voricionazole (400 mg O12h for 1 day, then 200 mg O12h for 1 day, then 200 mg O12h for 2 day) and oral flucorazole (400 mg on by 1, then 200 mg O12h for 4 days) to 6 healthy make subjects resulted in an increase in C ma, and AUC c, of voricionazole by an average of 57% (60% CE) 20% to 107% and 73% (90% CE) 40% to

128%), respectively. In a follow-on-clinical study involving 8 healthy male subjects, reduced design and/or frequency of vorcinazione and fluorazione did not eliminate or diminish this effect. Concomitant administration of vorcinazione and fluorazione at an dose is not recommended. Close monitoring for adverse events related to vorcinazione is recommended if vorcinazione is used sequentially after fluconazione, especially within 24 h of the last dose of fluconazione (see PRECAUTIONS).

2-11 or the last cluster of inclinative (see Treachol Hors).

70 Tackethib: Coadministration of fluconazole (400 mg on bay 1 and 200 mg once daily for 6 days [Days 2 to 7]) and tofackihb (30 mg single dose on Day 5) in healthy subjects resulted in increased mean tofackiha AUC and Cm., avalues of approximately 79% (90% CI: 64% to 96%) and 27% (90% CI: 12% to 44%), respectively, compared to administration of tofackiha Janes (see PRECAUTION).

Fluconazole is a highly selective inhibitor of fungal cytochrome P450 dependent enzyme lanostero i 14-d-demethylase. This enzyme functions to convert lanosterol to grossterol. The subsequent bos of normal steroic correlates with the accumulation of 14-d-methyl sterois in fungi and may be responsible for the fungistatic activity of fluconazole. Mammalian cell demethylation is much less sensitive to fluconazole inhibitor.

### Resistance

Fluconazole resistance may arise from a modification in the quality or quantity of the target enzyme (lanosterol 14-α-demethylase), reduced access to the drug target, or some combination of these mechanisms.

Point mutations in the gene (ERGI1) encoding for the target enzyme lead to an altered target with decreased affinity for azoles. Overexpression of ERGI1 results in the production of high concentrations of the target enzyme, creating the need for higher intracellular drug concentrations to inhibit all of the enzyme molecules in the cell.

The second major mechanism of drug resistance involves active efflux of fluconazole out of the cell through the activation of two types of multirug efflux transporters; the superfamily (encoded by CRP genes). Upregulation of the MRP gene leads to fluconazole resistance, whereas, upregulation of CDR genes may lead to resistance to multiple azoles.

Resistance in Candida glabrata usually includes upregulation of CDR genes resulting in resistance to multiple azoles. For an isolate where the minimum inhibitory concentration (MC) is categorized as intermediate (16 to 32 mcg/mL), the highest fluconazole dose is recommended.

Candida krusei should be considered to be resistant to fluconazole. Resistance in C. krusei appears to be mediated by reduced sensitivity of the target enzyme to inhibition by the agent.

by the agent.

There have been reports of cases of superinfection with Candida species other than C. albicans, which are often inherently not susceptible to fluconazole (e.g., Candida krusei) Such cases may require alternative antifungal therapy.

### Antimicrobial Activity

Fluconazole has been shown to be active against most isolates of the following microorganisms **both** *in vitro* **and in clinical infections.** 

Candida albicans

Candida glabrata (Many isolates are intermediately susceptible)

Candida parapsilosis

Cryptococcus neoformans

Cryptocccus rearonnairs. The following in urbo data are available, but their clinical significance is unknown. At least 90% of the following fungi exhibit an in viro MIC less than or equal to the susceptible breekpoint for fluconacele (https://www.fda.gov/STIQ against sloates of similar genus or organism group. However, the effectiveness of fluconazole in treating clinical infections due to these fungi has not been established in adequate and well-controlled clinical trials.

Candida dubliniensis

Candida kefyr

Candida krusei should be considered to be resistant to fluconazole. Resistance in C.krusei appears to be mediated by reduced sensitivity of the target enzyme to inhibition by the agent.

There have been reports of cases of superinfection with Candida species other than C. albicans, which are often inherently not susceptible to fluconazole (e.g., Candida krusei) Such cases may require alternative antifungal therapy.

# Susceptibility Testing

For specific information regarding susceptibility test interpretive criteria and associated test methods and quality control standards recognized by FDA for this drug, please see: https://www.fda.gov/STIC.

# INDICATIONS AND USAGE

- INDICATIONS AND USAGE
  Fluconazole tablets are indicated for the treatment of:

  1. Vagnial candidises (vaginal yeast infections due to Candida).

  2. Oropharyngeal and esophageal candidiass. In open noncomparative studies of relatively small numbers of patients, fluconazole tablets were also effective for the treatment of Candida urnary tract refections, personates, and systemic Candida infections including candidersia, disseminated candidiass, and systemic Candida infections including candidersia, disseminated candidiass, and systemic Candida infections including candidases, and personal candidas in the candida in the control of the candida in the candida in

Prophylaxis: Fluconazole tablets are also indicated to decrease the incidence of candidiasis in patients undergoing bone marrow transplantation who receive cytotoxic chemotherapy and/or radiation therapy.

Specimens for fungal culture and other relevant laboratory studies (serology, histopathology) should be obtained prior to therapy to solder and identify causative organisms. Therapy may be histitude before the results of the cultures and other laboratory studies are known; however, once these results become available, anti-infectule therapy should be adjusted accordingly.

# CLINICAL STUDIES

Cryptococcal meningitis: in a multicenter study comparing fluconazole (200 mg/day) to amploteric in IO.3 mg/day) for treatment of cryptococcal meningits in patients with amphoteric in IO.3 mg/day) for treatment of cryptococcal meningits in patients with during the course of themps; abnormal mental status, cerebrospiral fluid cryptococcal antigen titer greater than 1:1024, and cerebrospiral fluid write blood cell count of tess than 20 cells/mm<sup>3</sup>. Mortally among high risk patients was 33% and 40% for amphoteric in B and fluconazole patients, respectively (po-5.98), who overall deaths 14% (9 of 63 subjects) and 19% (24 of 131 subjects) for the 2 arms of the study (po-4.84), Optimal dosea and regiments for patients, which can be a made of the study (po-4.84), optimal dosea and regiments for patients with acute cryptococcal meningitis and at high 326.83-9).

Vaginal candidiassis: Two adequate and well-controlled studies were conducted in the U.S. using the 150 mg tablet. In both, the results of the fluconazole regimen were comparable to the control regimen (lothrimazole or miconazole intravaginally for 7 days) both clinically and statistically at the one month post-treatment evaluation.

The therapeutic cure rate, defined as a complete resolution of signs and symptoms of vaginal candidiasis (clinical cure), along with a negative KOH examination and negative culture for Candida (microbiologic eradication), was 55% in both the fluconazole group and the vaginal products group.

| Fluconazole Vaginal | Enrolled 448 422 Evaluable 347 | 327 | Clinical 239/347 235/327 | Mycologic 213/347 196/327 190/347179/327 | PO 150 mg Product | at Late (77%) (77%) | cure (69%) | (72%) | eradication (61%) | (60%) | (55%) | (55%) | (55%) | tablet | nhs. x Z | Followup

Approximately three-fourths of the enrolled patients had acute vagnitis (<4 episodes/12 months) and achieved 80% clinical cure. 67% mycologic eradication, and 59% therapoutic cure when treated with a 150 mg fluxonazole tablet administered orally. These rates were comparable to control products. The remaining one-fourth of enrolled patients had recurrent vagnitis (2-e episodes/12 months) and achieved 57% clinical cure. 47% mycologic eradication, and 40% therapeutic cure. The numbers are too small to make meaningful clinical or statistical comparisons with vagnial products in the treatment of patients with recurrent vagnitis.

Substantially more gastrointestinal events were reported in the fluconazole group compared to the vaginal product group. Most of the events were mild to moderate Because fluconazole was given as a single dose, no discontinuations occurred.

Parameter Fluconazole Vaginal Evaluable 448422 Wth 141 112 Nervous 90 69 Gastrointestinal 73 18 Wth 117 67 Nervous 61 29 Headache 58 28 Gastrointestinal 68 13 Abdominal 25 7 Nausea 30 3 Diarrhea 12 2 Application 0 19 Taste 6 0
P.O. Products patients any (31%) (27%) System (20%) (16%) (16%) (16%) (47%) drug- (26%) (16%) System (14%) (7%) (13%) (7%) (15%) (3%) pain (6%) (2%) (7%) (13%) (3%) (-1%) site event (0%) (5%) Perversion (1%) (10%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14%) (14

tients compared to 46% of nystatin treated patients. Mycologically, 76% of conazole treated patients had the infecting organism eradicated compared to 11% for statin treated natients

	Fluconazole	Nystatin
Enrolled	96	90
Clinical Cure	76/88 (86%)	36/78 (46%)
Mycological eradication *	55/72 (76%)	6/54 (11%)

\* Subjects without follow-up cultures for any reason were considered nonevaluable for mycological response.

The proportion of patients with clinical relapse 2 weeks after the end of treatment was 14% for subjects receiving fluconazole and 16% for subjects receiving nystatin. At 4 weeks after the end of treatment, the percentages of patients with clinical relapse wer 22% for fluconazole and 23% for nystatin.

### CONTRAINDICATIONS

CONTRAINDICATIONS

Fluonacole is contraindicated in patients who have shown hypersensitivity to fluonacole or to any of its excipients. There is no information regarding cross-hypersensitivity between fluonacole and other acide antifungal agents. Caution should be used in prescribing fluonacole to patients with hypersensitivity to other acoles. Coadministration of other drugs known to prolong the QT interval and which are metabolized via the enzyme CYP3A4 such as enythromycin, pimozide, and quinidine are contraindicated in patients receiving fluonacole (see CLINICAL PHARMACOLOGY: Drug Interaction Studiesand PRECAUTIONS).

WARNINGS

(1) Hepatic injury: Fluconazole should be administered with caution to patients with liver dysfunction. Fluconazole has been associated with rar cases of serious hepatic toxicity, including fatalities primarily in patients serious underlying medical conditions. In cases of fluconazole-associated hepatotoxicity, no obvious relationship to total daily dose, duration of hepatotoxicity, no obvious relationship to total daily dose, duration of hepatotoxicity has usually, but not always, been reversible on discontinuation of therapy. Patients who develop abnormal liver function tests during fluconazole therapy should be monitored for the developmemore severe hepatic injury. Pluconazole should be discontinuationed if clinical signs and symptoms consistent with liver disease develop that may be attributable to fluconazole.

(2) Anaphylaxis: In rare cases, anaphylaxis has been reported.

(2) Anaphylaxis: In rare cases, anaphylaxis has been reported.
(3) Dermatologic. Exfoliathe side illicatives during treatment with fluconazole have been reported. Falal outcomes have been reported in patients with serious underlying diseases. Patients with deep seated fungal infections who develop rashes during treatment with fluconazole should be incontiored closely and the drug discontinued it lesions progress. Fluconazole should be discontinued in patients treated for superficial fungal infection who develop a rash that may be attributed to fluconazole (a) of the patient of the patient of the patient of fluconazole in pregnant women. Case reports describe a pattern of distinct congential anomalies in infants exposed in utera to high does maternal fluconazole (400 to 800 to those seen in animal studies. If fluconazole is used during pregnancy or if the patient becomes pregnant while taking the drug, the patient should be informed of the potential hazard to the fletus. Effective contraceptive measures should be considered in women of child-bearing potential who are being treated with fluconazole do 00 800 most of child-bearing potential who are being treated with fluconazole do 00 800 most of child-bearing potential who are being treated with fluconazole was considered in women of child-bearing potential who are being treated with fluconazole do 00 800 most of child-bearing potential who are being treated with fluconazole do so so most of the second potential who are being treated with fluconazole do so most of the first trimester, but these epidemiological studies have limitations and these findings have not been confirmed in controlled clinical trials (see PRECAUTIONS: Pregnancy).

# General

General Some azoles, including fluconazole, have been associated with prolongation of the QT interval on the electrocardiogram. Fluconazole causes QT prolongation via the ribibition of Rectifier Potassium Channel current (likr). The QT prolongation caused by other medicinal products (such as amiodarone) may be amplified via the inhibition of voctoriome P450 (CIYP) 344 (see PRECAUTIONS). Torug Interactions). During post-marketing surveillance, there have been rare cases of QT prolongation and torsade de pointes in patients taking fluconazole. Most of these reports involved seriously ill patient and produced to the production of the pro

Fluconazole should be administered with caution to patients with these potentially proarrhythmic conditions.

Concomitant use of fluconazole and erythromycin has the potential to increase the ris of cardiotoxicity (prolonged QT interval, torsade de pointes) and consequently sudder heart death. This combination should be avoided.

Fluconazole should be administered with caution to patients with renal dysfunction Adrenal insufficiency has been reported in patients receiving azoles, including fluconazole. Reversible cases of adrenal insufficiency have been reported in patients receiving fluconazole.

When driving vehicles or operating machines, it should be taken into account that occasionally dizziness or seizures may occur.

# Single Dose

The convenience and efficacy of the single dose oral tablet of fluconazole regimen for the treatment of vaginal yeast infections should be weighed against the acceptability of a higher incidence of drug related adverse events with fluconazole (26%) versus intravaginal agents (16%) in U.S. comparative clinical studies (see ADVERSE REACTIONS and CLINICAL STUDIES).

Drug Interactions: (See CONTRAINDICATIONS)

Drug Interactions: (See CONTRAINDICATIONS)

Fluornance is a moderate CP720 and CP7344 hibitor. Fluornazole is also a strong inhibitor of CP72CIB. Patients treated with fluornazole, who are also concorntaintly treated with drugs with a narrow therapeutic window metabolized through CP72CB and CP73A4, should be monitored for adverse reactions associated with the concomitantly administered drugs. In addition to the observed/documented interactions mentioned below, there is a risk of increased plasma concentration of other compounds metabolized by CYP2CB, CYP2CIB, and CYP3A4 coadministered with fluornazole.

Therefore, caution should be exercised when using these combinations and the patients should be carefully monitored. The enzyme inhibiting effect of fluconazole persists 4 to 5 days after discontinuation of fluconazole treatment due to the bing half-life of fluconazole. Clinically or potentially significant drup interactions between fluconazole and the following agents/classes have been observed and are described in greater detail below:

Alfentanik A study observed a reduction in clearance and distribution volume as well as prolongation of  $t_{10}$  of identani following concomitant treatment with fluconazole. A possible mechanism of action is fluconazole's inhibition of CYP3A4. Dosage adjustment of alfentanii may be necessary.

Amiodarone: Concombant administration of fluconazole with amiodarone may increase Of probingation. Caution must be exercised if the concomitant use of fluconazole and amiodarone is necessary, notably with high-dose fluconazole (800 mg). Amiritiphyine, notarbly hire. Fluconazole increases the effect of amiritiphyine and nortriphyine. 5-Nortriphyine and/or S-amiritiphyine may be measured at initiation of the combiation therapy and after 1 week. Dosage of amiritiphyine/inerriphyine should be adjusted, if necessary.

Amphoteric in Sconcurrent administration of fluconazole and amphotericin B in infected normal and immunosuppressed mice showed the following results: a small addible antifungal effect in systemic infection with Candida abicars, on interaction in infraction infection with Candida abicars, on interaction in infection with Candida infection with Candida abicars, on interaction in interaction in infection with Candida in section with Candida in infection with Candida in interaction with a furniquists. The client significance of results obtained in these studies is

Azhtromycir: 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.

pinarimaconnecia, mise acción deversen incunización ad actividritychi. Cackium channel blockers: Certain calcium channel antagonists (nifedipine, isradipine, ambdipine, verapamil, and felodipine) are metabolized by CYP3A4. Fuconazole has the potential to increase the systemic exposure of the calcium channel antagonists. Frequent monitoring for adverse events is recommended.

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 toxickly. Dosage adjustment of carbamazepine may be necessary depending on concentration measurements/effect.

Celecoxib: During concomitant treatment with fluconazole (200 mg daily) and cele (200 mg), the celecoxib  $C_{\max}$  and AUC increased by 68% and 134%, respectively of the celecoxib dose may be necessary when combined with fluconazole.

or the ceecox to ose may be necessary when compined with ruconazore.

Commarin-type anticoagulants: Forthrombit them may be increased in patients receiving concomitant fluconazore and coumarin-type anticoagulants. In post-marketing experience, as with other azole antifungals, bleeding events (fluxising, epistaxis, gastrointestinal bleeding, hematuria, and melena) have been reported in association with increases in portrombit time in patients receiving fluconazor concurrently with warfarin. Careful monitoring of prothrombit time in patients receiving fluconazor do concurrently with warfarin careful monitoring of prothrombit time in patients receiving fluconazor end commarin-type anticoagulants is recommended. Dose adjustment of warfarin may be necessary (see CLINICAL PHARMACOLLOGY: Drug Interaction Studies).

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

Cycbsporine: Fluconazole significantly increases cyclosporine levels in renal transplant patients with or without renal impairment. Careful monitoring of cyclosporine and cyclosporine (see CLINICAL PHARMACOLOGY: Drug Interaction Studies). This combination may be used by reducing the dosage of cyclosporine depending on cyclosporine concentration.

Fentany: One fall 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 21 healthy volunteers, it was shown that fluconazole delayed the elimination of fentanyl significantly. Elevated fentanyl concentration may lead to respiratory depression.

to respratory depression.

HMG-CoA reductase inhibitors: The risk of myopathy and rhabdomyolysis increases when fluconazole is coadministered with HMG-CoA reductase inhibitors metabolized through CP2AA, such as atorovatish and simisatish, or through CP2AA, such as atorovatish and simisatish, or through CP2AA, such as atorovatish and simisatin, or through CP2AB, such as a fluvastath. If concomitant therapy is necessary, the patient should be observed for symptoms of myopathy and makedomyolysis and creatine kinase should be montrored in the control of the c

Hydrochlorothizade: In a pharmacountywysa o usuginosed or suspected.

Hydrochlorothizade in a pharmacoknetic interaction study, coadministration of multiple dose hydrochlorothizade to healthy volunteers receiving fluconazole increased plasma concentrations of fluconazole by 40%. An effect of this magnitude should not necessitate a change in the fluconazole dose regimen in subjects receiving concomitant diuretics.

Ibrutinb: Moderate inhibitors of CYP3A4 such as fluconazole may increase plasma ibrutinb concentrations and increase risk of adverse reactions associated with british if brutinb and fluconazole are concembantly administered, reduce the dose of brutin as instructed in brutinb prescribing information and the patient should be frequently monitored for any adverse reactions associated with brutinb.

Lemborexant: Concombant administration of fluconazole increased lemborexant Cmax and AUC by approximately 1.6- and 4.2-fold, respectively which is expected to increaser risk of adverse reactions, such as somnolence. Avoid concombant use of fluconazole with lemborexant.

Losartan: Fuconazole inhibits the metabolism of losartan to its active metabolite (E-31 74) which is responsible for most of the angiotensin li-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.

Mon-strootida anti-filarmatory of Yugs: The C<sub>max</sub> and AUC of fluribprofen were increased by 23% and 81%, respectively, when coadministered with fluconazole compared to administration of fluribprofen abnes: Smilarly the C<sub>max</sub> and AUC of the pharmacologically active Bormer [5-(+)-buprofen) were increased by 15% and 82%, respectively, when fluconazole was coadministered with racemic buprofen (400 mg) compared to administration of recemic buprofen abne.

Although not specifically studied, fluconazole has the potential to increase the systemic exposure of other non-steroidal anti-inflammatory drugs (NSAIDs) that are metabolized by CPPC2G (e.g., naproxen, bornoxam, metoxicam, dicoferanci. Frequent montoring for adverse events and toxicity related to NSAIDs is recommended. Adjustment of dosage of NSAIDs may be needed.

On John Ship of Received Objapath: Moderate hibitors of CYP3A4 such as fluconazole increase olaparib plasmi concentrations; concomitant use is not recommended. If the combination cannot be avoided, reduce the dose of olaparib as instructed in the LYNPARZA ® (Olaparib) Prescribing Information.

Prescribing information. Oral contraceptive: Two pharmacokinetic studies with a combined oral contraceptive have been performed using multiple doses of fluconazole. There were no relevant effects on hornone level in the 50 mg fluconazole study, while at 200 mg dally, the AUCs of ethingly estraidiol and levenorgestrel were increased 40% and 24%, respectively. Thus, multiple-dose use of fluconazole at these doses is unlikely to have an effect on the efficacy of the combined oral contraceptive.

efficacy of the combined oral contraceptive. Oral hypogycemics: Chically significant hypogycemia may be precipitated by the use of fuconazole with oral hypogycemic agents; one fatalty has been reported from hypogycemic association with combined fuconazole and gblyuride use. Fluconazole reduces the metabolism of toblutamide, glyburide, and glipizide and increases the plasma concentration of these agents. When fluconazole is used concentrations should be carefully mentalized and the dose of the suffortyprizes should be adjusted as should be carefully mentalized and the dose of the suffortyprizes should be adjusted as should be carefully monitored and the dose of the sulfonylurea should be adjuncted and the sulfonylurea should be adjuncted in the sulfonylurea should be adjuncted in

Phenytoin: Fluconazole increases the plasma concentrations of phenytoin. Careful monitoring of phenytoin concentrations in patients receiving fluconazole and phenytoin is recommended (see CLINICAL PHARMACOLOGY: Drug Interaction Studies).

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 o torsade de pointes. Coadministration of fluconazole and pimozide is contraindicated.

torsade de pointes. Coadministration of fluconazole and pimozide is contraindicate Predisioner. There was a case report that a lever-transplanted patient treated with predisione developed acute adrenal cortex insufficiency when a 3 month the rays fluconazole was discontinued. The discontinuation of fluconazole presumably cause enhanced CPP3A4 activity which led to increased metabolism of predisione. Patiel long-term treatment with fluconazole and predisiones should be carefully monitore 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 quindine has been associated with QT prolongation and rare occurrences of torsa pointes. Coadministration of fluconazole and quinidine is contraindicated (see

Rifabutin: There have been reports that an interaction exists when fluconazole Anaduri. There in over been reports untain line action exists when nucleatives of rifabutin administered concomitantly with rifabutin, leading to increased serum levels of rifabutin up to 80%. There have been reports of uveltis in patients to whom fluconazole and rifabutin were coadministered. Patients receiving rifabutin and fluconazole concemitantly should be carefully monitored (see CLINICAL PHARMACOLOGY: Drug Interaction

Riampin: Riampin enhances the metabolism of concurrently administered fluconazole Depending on clinical circumstances, consideration should be given to increasing the dose of fluconazole when it is administered with driampin (see CLINICAL PHARMACOLOGY: Drug Interaction Studies).

PHARMACOLOGY: Drug Interaction Studies).

Saquinavir Fluoranzie increases the AILC of saquinavir by approximately 50%, complex paper support of saquinavir support of saquinavir support suppo

Sirolimus: Fuconazole increases plasma concentrations of sirolimus presumably by inhibiting the metabolism of sirolimus via CMP3A4 and P-glycoprotein. This combination may be used with a dosage adjustment of sirolimus depending on the effect/concentration measurements.

Taccolinus: Flooranze may increase the serum concentrations of orally administered tearonisms up to 3 times due to inhibition of datacolinus metabolism through CPF3A4 in tacrolinus is object in the control of the con

Theophylline: Fluconazole increases the serum concentrations of theophylline. Careful monitoring of serum theophylline concentrations in patients receiving fluconazole and theophylline is recommended (see CLINICAL PHARMACOLOGY: Drug Interaction

Tofacithib: Systemic exposure to tofacithib is increased when tofacithib is coadministered with fluconazole. Reduce the dose of tofacithib when given concomitantly with fluconazole (i.e., from 5 mg twice daily to 5 mg once daily as instructed in the XELJANZ ® (tofacithib) label) (see CLINICAL PHARMACOLOGY: Drug Interaction Studies).

Drug interaction studies).

Tologatain: Planne exposure to tolvaptan is significantly increased (200% in AUC; 80% in AUC; 80% in AUC; 80% in Cm<sub>max</sub>) when tolvaptan, a CYP3A4 substrate, is coadministered with fluconazole, a moderate CYP34 hinblior. This interaction may result in the risk of a significant increase in adverse reactions associated with tolvaptan, particularly significant duresk, dehydration and acute renal faulure. If tolvaptan and fluconazole are concomitantly administered, the tolvaptan dose should be reduced as instructed in the tolvaptan prescribing information and the patient should be frequently monitored for any adverse reactions associated with tolvaptan.

Triazolam: Fluconazole increases the AUC of triazolam (single dose) by approximately 50%, Cmax by 20% to 32%, and increases t½ by 25% to 50 % due to the inhibition of metabolism of triazolam. Dosage adjustments of triazolam may be necessary.

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

Wamin A. Based on a case report in one patient receiving combination therapy with al-trans-rethoid acid (an acid form of vtamin A) and fluconazole, central nervous system (CKS) related understable effects have developed in the form of pseudotumor cerebri, which disappeared after discontinuation of fluconazole treatment. This combination may be used but the incidence of CNS related understable effects should be borne in mid-

Voriconazole: Avoid concomitant administration of voriconazole and fluconazole. Monitoring for adverse events and toxicity related to voriconazole is recommended; especially, if voriconazole is started within 24 h after the last does of fluconazole (see CLINICAL PHARMACOLOGY: Drug Interaction Studies).

Zidovudine Floronazole increases the C<sub>max</sub> and AUC of zidovudine by 84% and 74% respectively, due to an approximately 45% decrease in oral zidovudine clearance. The half-life of zidovudine was likewise prolonged by approximately 128% following combination therapy with fluconazole. Patients receiving this combination should be

monitored for the development of zidovudine-related adverse reactions. Dosage reduction of zidovudine may be considered.

Physicians should be aware that interaction studies with medications other than those listed in the CLINICAL PHARMACOLOGY section have not been conducted, but such

# Carcinogenesis, Mutagenesis, and Impairment of Fertility

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

Injuryupy in ad in in Lesses in Inclusive or inspanceauar adentimes. Eliconazole, with or without metabolic activation, was negative in tests for mutagenicity in four strains of 5. typihimurum, and in the mouse lymphoma LS178Y system. Cytogenetic Studies in vivo (murine bone marrow cels, following oral administration of fluconazole) and in vitro (human lymphocytes exposed to fluconazole at 1000 mcg/mL) showed no evidence of chromosomal mutations.

showed no evidence of chromosomal mutations. Fluconable did not affect the fertility of make or female rats treated orally with daily dose of 5 mg/kg, 10 mg/kg, or 20 mg/kg or with parenteral doses of 5 mg/kg, 25 mg/kg, or 30 mg/kg, or 30

### Pregnancy

Teratogenic Effects.

Potential for Fetal Harm: Use in pregnancy should be avoided except in patients with severe or potentially fire threatening fungal infections in whom fluconazole may be used if the anticipated benefit outweighs the possible risk to the fetus. A few published case reports describe a pattern of distinct congenital anomalies in infants exposed in utero to high dose maternal fluconazole (40to 1800 mg/day) during most or all of the first trimester. These reported anomalies are similar to those seen in animal studies. Effective trimester. These reported anomalies are similar to those seen in animal studies. Effective trimester. These reported anomalies are similar to those seen in animal studies. Effective trimester. These reported anomalies are similar to those seen in animal studies. Effective are being treated with fluconazole alot to 80to 800 mg/day and should continue throughout the treatment period and for approximately 1 week (5 to 6 haff-lives) after the final dosing the drug, the patient should be informed of the potential hazard to the fetus. Spontaneous abortions and congenital ahomormalities have been surgested as potential storing the drug, the patient should be informed of the potential hazard to the fetus. Spontaneous abortions and congenital ahomormalities have been surgested as potential trimester of pregnancy based on retrospective epidemiological studies. There are no adequate and well-controlled studies of fluconazole in pregnant women (see WARNINGS: Potential for Fetal Harm).

### Human Data

Case reports describe a distinctive and rare pattern of birth defects among infants whose mothers received high-dose (400 to 800 mg/day) flucionazole during most or all brachycepha, blanomal facials a boxomical character of the pattern of the pat

Epidemiological studies suggest a potential risk of spontaneous abortion and congenital abnormalities in infants whose mothers were treated with 150 mg of fluconazole as a single or repeated dose in the first trimester, but these epidemiological studies have limitations and these findings have not been confirmed in controlled clinical trials.

Animal Data
Fluconazole was administered orally to pregnant rabbits during organogenesis in two studies at doses of 5 mg/kg, 10 mg/kg, and 20 mg/kg and at 5 mg/kg, 25 mg/kg, and 75 mg/kg, respectively. Madernal weight gain was impaired at all dose levels (approximately mg/kg, respectively. Madernal weight gain was impaired at all dose levels (approximately) and abortions occurred at 75 mg/kg (approximately) 4 times the 400 mg clinical dose based on BSA); no adverse fetal effects were observed.

In several studies in which pregnant rats received fluconazole orally during organogenesis, maternal weight gain was impaired and placental weights were increased at 25 mg/kg, and leffects at 8 mg/kg or 10 mg/kg; proceases in fetal anatomical variants (supernumerary ribs, renal pelvis dilabon) and delays in ossification were observed at 25 mg/kg and 50 mg/kg and higher doses. At doses ranging from 80 to 320 mg/kg (approximately 2 to 8 times the 400 mg clinical dose based on BSA), embryolethality in rats was increased and fetal abnormalite sincluded wony ribs, cleft palate, and abnormal craniofacial ossification. These effects are consistent with the inhibition of estrogen synthesis in rats and may be a result of known effects of lowered estrogen on pregnancy, organogenesis, and parturition.

Nursing Mothers

Fluconazole was present in low levels in breast milk following administration of a single 150 mg dose, based on data from a study in 10 breastfeeding women who temporary or permanently discontinued breastfeeding 5 days to 19 months postpartum. The estimated daily infant dose of fluconazole from breast milk (assuming mean milk consumption of 150 m.l/g/g/glay) based on the mean peak milk concentration (2.61 m.gg/ml. [range: 1.57 to 3.65 m.gg/ml.] at 5.2 hours post-dose) was 0.39 mg/g/gday and present peak milk concentration (2.61 m.gg/ml. [range: 1.57 to 3.65 m.gg/ml.] at 5.2 hours post-dose) was 0.39 mg/g/gday catimated infant dose is 6 mg/g/gday on the first adj y flowed by 3 mg/g/gday; estimated infant dose is 13% of 3 mg/kg/day maintenance dose). There are no data on fluconazole levels in milk after repeated use or after high-dose fluconazole. A published survey of 96 breastfeeding women who were treated with fluconazole 150 mg every other day (average of 7.2 capsules [range 1 to 25 capsules] for lact action.

Caution should be exercised when fluconazole is administered to a nursing woman.

An open-label, randomized, controlled trial has shown fluconazole to be effective in the treatment of oropharyngeal candidiasis in children 6 months to 13 years of age (see CLINICAL STUDIES).

The use of fluconazole in children with cryptococcal meningits. Candida esophagits, or systemic Candida esophagits, or systemic Candida esophagits, or systemic Candida infections is supported by the efficacy shown for these indications in adults and by the results from several small noncomparative pediatric clinicial studies. In adults, pharmacocinetic studies in children (see CLINICAL PHARMACOLOGY) have addition, pharmacocinetic studies in children (see CLINICAL PHARMACOLOGY) have adults, placed and propertionally between children and adults (see DOSAGE AND ADMINISTRATION).

ADMINISTRATION).
In a noncomparative study of children with serious systemic fungal infections, most c which were candidemia, the effectiveness of fluconazole was similar to that reported the treatment of candidemia in adults. Of 17 subjects with culture-confirmed candidemia, 11 of 14 (179%) with baseline symptoms (3 were asymptomatic) had a chiral cure 13.15 (78%) of evaluable patients had a mycologic cure at the end of treatment but two of these patients relapsed at 10 and 18 days, respectively, following caseable on the tempty.

The efficacy of fluconazole for the suppression of cryptococcal meningits was successful in 4 of 5 children treated in a compassionate-use study of fluconazole for the treatment of life-threatening or serious mycosis. There is no information regarding the efficacy of fluconazole for primary treatment of cryptococcal meningits in children.

The safety profile of fluconazole in children has been studied in 577 children ages 1 day to 17 years who received doses ranging from 1 to 15 mg/kg/day for 1 to 1,616 days (see ADVERSE REACTIONS).

Efficacy of fluconazole has not been established in infants less than 6 months of age (see CLINICAL PHARMACOLOGY). A small number of patients (29) ranging in age from 1 day to 6 months have been treated safely with fuconazole.

Genatire Use
In non-AIDS patients, side effects possibly related to fluconazole treatment were
reported in fewer patients aged 65 and older (9%, n = 339) than for younger patients
(14%, n=2240). However, there was no consistent difference between the older and
younger patients with respect to individual side effects. Of the most frequently reported
(-1%) side effects, rash, womiting, and diarrhea occurred in greater proportions of
older patients. Similar proportions of older patients (2.4%) and younger patients (1.5%)
discontinued fluconazole therapy because of side effects. In post-marketing experience,
spontaneous reports of anemia and acute renal failure were more frequent among
patients 65 years of age or older than in those between 12 and 65 years of age.
Because of the voluntiary nature of the reports and the natural increase in the incidence
of arteria and renal failure in the elderly, it is however not possible to establish a causal relationship to drug exposure

reatoniship to drug exposure.

Controlled clinical trible of fluconazole did not include sufficient numbers of patients aged 65 and older to evaluate whether they respond differently from younger patients in each indication. Other reported clinical experience has not identified differences in responses between the elderly and younger patients.

Fluconazole is primarily cleared by roral excretion as unchanged drug. Because elderly patients are more likely to have decreased renal function, core should be taken to adjust does based on exating to elarance. It may be useful to monitor renal function (see CLINICAL PHARMACOLOGY and DOSAGE AID ADMINISTRATION).

# ADVERSE REACTIONS

# Fluconazole is generally well tolerated.

FILCONAZONE 6 Senerally west coverated.

In some patients, particularly those with serious underlying diseases such as AIDS and cancer, changes in renal and hematological function test results and hepatic abhornalities have been observed during treatment with fluconazone and comparative agents, but the cirical significance and relabilishingh to treatment is uncertain.

In Patients Revolving a Single Dose for Vaginal Candidiasis:

In Patients Receiving a Single Dose for Vaginal Candidases:

During comparative clinical studies conducted in the United States, 448 patients with vaginal candidissis were treated with fluconazole, 150 mg single dose. The overall incidence of side effects possibly related to fluconazole was 26%. In 422 patients receiving active comparative agents, the incidence was 16%. The most common treatment-related adverse events reported in the patients who received 150 mg single dose fluconazole for vagintis were reheatache (13%), nausea (7%), and abdominal pain (6%), Other side effects reported with an incidence equal to or greater than 1% reducted diarrhee (3%), dyspepsia (1%), dizziness (1%), and taste perversion (1%). Most of the

reported side effects were mild to moderate in severity. Rarely, angioedema and anaphylactic reaction have been reported in marketing experience.

### In Patients Receiving Multiple Doses for Other Infections:

Sixteen percent of over 4000 patients treated with fluoronazole in clinical trials of 7 days or more experienced adverse events. Treatment was discontinued in 1.5% of patients due to adverse clinical events and in 1.3% of patients due to laboratory test

Clinical adverse events were reported more frequently in HIV infected patients (21%) than in non-HIV infected patients (13%); however, the patterns in HIV infected and non-HIV infected patients were similar. The proportions of patients discontinuing therapy due to clinical adverse events were similar in the two groups (1.5%).

The following treatment-related clinical adverse events occurred at an incidence of 1% or greater in 4048 patients receiving fluctonazole for 7 or more days in clinical trials: nausea 3.7%, headache 1.3%, skin rash 1.8%, vomking 1.7%, abdominal pain 1.7%, and darrhea 1.5%.

diarrhea 1.5%. Hepato-bilary: In combined clinical trials and marketing experience, there have been rare cases of serious hepatic reactions during treatment with fluconazole (see WARNINGS). The spectrum of these hepatic reactions has ranged from mild transient elevations in transaminases to clinical hepatic, holestasis and furbinant hepatic failure, including statilities. Instances of fatal hepatic reactions were noted to occur primarily in patients of the white taking multiple concombant medications. Transient hepatic reactions, including hepatits and joundice, have occurred among patients with no other identifiable risk factors. In each of these cases, liver function returned to baseline on discontinuation of fluconazole.

discontinuation of fluconazole. In two comparative trible evaluating the efficacy of fluconazole for the suppression of relapse of cryptococcal meningits, a statistically significant increase was observed in median AST (5GOT) levels from a baseline value of 30 U/L to 41 U/L to no tertial and 34 U/L to 66 I/U/L in the other. The overall rate of serum transaminase elevations of more than 8 times the upper limb of normal was approximately 3% in fluconazole-treated patients in clinical trais. These elevations occurred in patients with severe underlying disease, predominantly AIDs or malgranities, most of whom were receiving multiple disease, predominantly AIDs or malgranities, most of whom were receiving multiple concomitantly with one or more of the following medications: rifampin, phenytoin, isonlazid, valprok acid, or oral suffonylurea hypoglycemic agents.

In addition, the following adverse events have occurred during post-marketing

Immunologic: In rare cases, anaphylaxis (including angioedema, face edema and pruritus) has been reported.

Body as a Whole: Asthenia, fatigue, fever, malaise.

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

Central Nervous System: Seizures, dizziness

Hematopoietic and Lymphatic: Leukopenia, including neutropenia and agranulocytosis thrombocytopenia.

Metabolic: Hypercholesterolemia, hypertriglyceridemia, hypokalemia

Gastrointestinal: Cholestasis, dry mouth, hepatocellular damage, dyspepsia, vomiting.

Other Senses: Taste perversion. Musculoskeletal System: myalgia

Nervous System: Insomnia, paresthesia, somnolence, tremor, vertigo

Skin and Appendages: Acute generalized exanthematous pustulosis, drug eruption including fixed drug eruption, increased sweating, exfoliative skin disorders including Stevens-Johnson syndrome and toxic epidermal necrolysis, drug reaction with eosinophilia and systemic symptoms (DRESS) (see WARNINGS), abpecia.

### Adverse Reactions in Children:

The pattern and incidence of adverse events and laboratory abnormalities recorded during pediatric clinical trials are comparable to those seen in adults.

during pediatric clinical trais are comparative to those seen in abutis. In Phase IIIII clinical trais conducted in the United States and in Europe, 577 pediatric patients, ages 1 day to 17 years were treated with fluconazole at doses up to 15 mg/kg/day for up to 1,616 days. Thirteen percent of children experienced treatment-related adverse events. The most commonly reported events were vomiting (5%), abdominal pain (3%), nausea (7%), and diarrhea (7%), Treatment was discontinued in 2,3% of patients due to adverse clinical events and in 1.4% of patients due to abboratory test abnormalities. The majority of treatment-related laboratory abnormalities were elevations of transaminases or akaline phosphatase.

### Percentage of Patients With Treatment-Related Side Effects Fluconazole Comparative Fluconazole (N=577) Comparative Agents (N=451) 9.3 With any side Vomitina 5.1 Abdominal pain 2.8 1.6 1.6

# OVERDOSAGE

There have been reports of overdose with fluconazole accompanied by hallucination and paranoid behavior.

In the event of overdose, symptomatic treatment (with supportive measures and gastric lavage if clinically indicated) should be instituted.

Fluconazole is largely excreted in urine. A 3-hour hemodialysis session decreases plasma levels by approximately 50%.

In mice and rats receiving very high doses of fluconazole, clinical effects in both species included decreased motility and respiration, ptosis, lacrimation, salvation, urinary incontinence, loss of righting reflex, and cyanosis; death was sometimes preceded by clonic convulsion.

# DOSAGE AND ADMINISTRATION

# Dosage and Administration in Adults:

Vaginal candidiasis: The recommended dosage of fluconazole for vaginal candidiasis is 150 mg as a single oral dose.

# Multinle Dose

SINCE ORAL ABSORPTION IS RAPID AND ALMOST COMPLETE, THE DAILY DOSE OF FLUCONAZOLE IS THE SAME FOR ORAL TRABLETS AND INTRAVENOUS ADMINISTRATION. In general, a bearing dose of twice the daily dose is recommended on the first day of therapy to result in plasma concentrations close to steady-state by the second day of therapy.

The daily dose of fluconazole for the treatment of infections other than vaginal candidasks should be based on the infecting organism and the patient's response to therapy. Treatment should be continued until clinical parameters or inberotory tests indicate that active fungal infection has subsided. An inadequate period of treatment may lead to recurrence of active infection. Patients with AIDS and cryptococcal meningits or recurrent dropharyngeal candidiasis usually require maintenance therapt to prevent reapons.

Oropharyngeal candidiasis: The recommended dosage of fluconazole for oropharyngeal candidiasis is 200 mg on the first day, followed by 100 mg once daly. Clinical evidence of oropharyngeal candidiasis generally resolves within several days, but treatment should be continued for at least 2 weeks to decrease the likelhood of relapse.

be continued for at least z, weeks to be lease the intention of reaghes.

Espohageal candidiss: The recommended dosage of fluconazole for esophageal candidiss is 200 mg onte first day, followed by 100 mg once daily. Doses up to 400 mg/day may be used, based on medical judgment of the patient's response to therapy Patients with esophageal candidissis should be treated for a minimum of three weeks and for at least two weeks following resolution of symptoms.

and to a teast two weeks tollowing resolution to symposize Systemic Candida infections: For systemic Candida infections including candidemia, disseminated candidiasis, and pneumonia, optimal therapeutic dosage and duration therapy have not been established. In open, noncomparative studies of small numbor of patients, doses of up to 400 mg daily have been used.

Urinary tract infections and peritonitis: For the treatment of Candida urinary tract infections and peritonitis, daily doses of 50 to 200 mg have been used in open, noncomparative studies of small numbers of patients.

run.comparative studies or smail numbers of patients.

Cryptocccal meningits: The recommended dosage for treatment of acute cryptococcal meningits is 400 mg on the first day, followed by 200 mg once daly. A dosage of 400 mg once daly may be used, based on medical plugment of the patient's response to therapy. The recommended duration of treatment for inkilat therapy of cryptococcal meningits is 10 to 12 weeks after the cerebrosphal fluid becomes culture negative. The recommended dosage of fuconazole for suppression of reliapse of cryptococcal menings in patients with A105 a 200 mg once daily.

Prophysix in pakints undergoing bone marrow transplantation: The recommended flexonated that docused for the prevention of candidates in patients undergoing bone marrow transplantation is 400 mg, once dally. Patients who are anticipated to have severe granulocytopenia (less than 500 neutrophis cells/mm 3) should start fluconation prophysixs several days before the anticipated onset of neutropenia, and continue for days after the neutrophic lount rises above 1000 cells/mm 3.

# Dosage and Administration in Children:

The following dose equivalency scheme should generally provide equivalent exposure in pediatric and adult patients:

Pediatric Patients	Adults
3 mg/kg	100 mg
6 mg/kg	200 mg

\* Some older children may have clearances similar to that of adults. Absolute doses exceeding 600 mg/day are not recommended.

Experience with fluconazole in neonates is limited to pharmacokinetic studies in prenature newborns (see CLINICAL PHARMACOLOGY). Based on the prolonged half life seen in premature newborns (seet Sulficial PHARMACOLOGY). Based on the prolonged half life seen in premature newborns (gestational age 26 to 29 weeks), these children, in the first two weeks of life, should receive the same dosage (mg/dg) as in older children, but administered every 72 hours. After the first two weeks, these children should be dosed once daily. No information regarding fluconazole pharmacokinetics in full-term newborns is available.

Oropharyngeal candidiasis: The recommended dosage of fluconazole for oropharyngeal candidiasis in children is 6 mg/kg on the first day, followed by 3 mg/kg once daily. Treatment should be administered for at least 2 weeks to decrease the likelihood of

Esophageal candidiasis: For the treatment of esophageal candidiasis, the recommended dosage of fluconazole in children is 6 mg/kg on the first day, followed by 3 mg/kg once day. Doses up to 12 mg/kg/day may be used, based on medical judgment of the patient's response to therapy. Patients with esophageal candidiasis should be treated for a minitum of three weeks and for at least 2 weeks following the resolution of

Systemic Candida infections: For the treatment of candidemia and disseminated Candida infections, daly doses of 6 to 12 mg/kg/day have been used in an open, noncomparative study of a small number of children.

study of a small number of children.

Cryptococcal meningits: For the treatment of acute cryptococcal meningits, the recommended dosage is 12 mg/kg on the first day, followed by 6 mg/kg once daly. An dosage of 12 mg/kg once daly. An by be used, based on medical alyderine of the patient response to therapy. The recommended duration of treatment for inhal therapy of cryptococcal meningits is 10 to 12 weeks after the cerebrospinal flow becomes culture negative. For suppression of relapse of cryptococcal meningits in children with AIDS, the recommended dase of fluctomacols is 6 mg/kg once daly.

# Dosage in Patients with Impaired Renal Function:

Placonazole is cleared primarily by renal excretion as unchanged drug. There is no it to adjust single dose therapy for vaginal candidiasis because of imparted renal funct in patients with imparted renal function who will receive multiple doses of fluconazo initial loading dose of 50 mg to 400 mg should be given. After the loading dose, the dose (according to indication) should be based on the following table:

Creatinine Clearance (mL/min)	Recommended Dose (%)
>50	100
≤50 (no dialysis)	50
Hemodialysis	100% after each
	hemodialysis

Patients on hemodialysis should receive 100% of the recommended dose after each hemodialysis; on non-dialysis days, patients should receive a reduced dose according to their creatinine clearance.

These are suggested dose adjustments based on pharmacokinetics following administration of multiple doses. Further adjustment may be needed depending upon clinical condition

When serum creatinine is the only measure of renal function available, the following formula (based on sex, weight, and age of the patient) should be used to estimate the creatinine clearance in adults:

Males:	Weight (kg) × (140 - age)
Males.	72 × serum creatinine (mg/100 mL)

# 1. Females: 0.85 × above value

Although the pharmacokinetics of fluconazole has not been studied in children with renal insufficiency, dosage reduction in children with renal insufficiency should parallel that recommended for adults. The following formula may be used to estimate creathine clearance in children:

K×	linear length or height (cm)
N A	serum creatinine (mg/100 mL)

(Where K=0.55 for children older than 1 year and 0.45 for infants.)

Fluconazole tablets are administered orally. Fluconazole tablets can be taken with or without food.

Fluconazole Tablets, USP 200 mg: Engraved with "200" on one side and plain on the

other side. 1. NDC 68071-2805-2 Bottles of 2

Storage: Store at 20°C to 25°C (68°F to 77°F) [see USP Controlled Room Temperature].

# Glenmark Pharmaceuticals Limited

Colvale-Bardez, Goa 403513, India Manufactured for:

Mahwah, NI 07430

Questions? 1 (888) 721-7115

www.glenmarkpharma-us.com

# PATIENT INFORMATION

# PATIENT INFORMATION

# FLUCONAZOLE (floo-KON-a-zole) TABLETS

This leaflet contains important information about fluconazole. It is not meant to take the place of your healthcare provider's instructions. Read this information carefully before you take fluconazole tablets. Ask your healthcare provider if you do not understand any of this information or if you want to know more about fluconazole tablets.

# What are Fluconazole Tablets?

Fluconazole tablets are a prescription medicine used to treat vaginal yeast infections caused by a yeast called Candida. Fluconazole tablets helps stop too much yeast from growing in the vagina so the yeast infection goes away.

growing in the vagina so the yeast infection goes away.

Fluconazole tablests is different from other treatments for vaginal years infections because it is a label taken by mouth. Fluconazole tablest is also used for other conditions. However, this leaflet is only about using fluconazole tablest for vaginal year infections. For information about using fluconazole tablest for vaginal year infections. For information about using fluconazole tablest for other reasons, ask you heathcare provider. See the section of this leaflet for information about vaginal yeast infections.

# What is a vaginal yeast infection?

It is normal for a certain amount of yeast to be found in the vagina. Sometimes too much yeast starts to grow in the vagina and this can cause a yeast infection. Vaginal yeast infections are common. About three out of every four adult women will have at least one vaginal yeast infection during their life.

Some medicines and medical conditions can increase your chance of getting a yeast infection. If you are pregnant, have diabetes, use birth control pills, or take antibiotics you may get yeast infections more often than other women. Personal hygiene and certain types of cothing may increase your chances of getting a yeast infection. Survival was the control pills of the prevent vaginal yeast infections.

If you get a vaginal yeast infection, you may have any of the following symptoms

# Do not take Fluconazole Tablets if you. • take the following medicines:

- pimozide are allergic to fluconazole, the active ingredient in fluconazole tablets, or any of the ingredients in fluconazole tablets. See the end of this Patient Information leaflet for a complete list of ingredients in fluconazole tablets.

# Before you take fluconazole tablets, tell your healthcare provider about all of your medical conditions, if you: • have fiver problems have kidney problems

- have kidney problems including heart arrythmias have heart problems including heart arrythmias have heart problems including heart arrythmias have hypokalemia (twy potassium) are pregnant or plant to become pregnant. Tell your healthcare provider wild each problem to become pregnant while taking fluconazole tablets. You and your healthcare provider wild each eit fluconazole tablets is right for you. If you may become pregnant you should use a birth-control (contraceptive) nethod while taking fluconazole tablets and for I week after your final dose.

  are breastfeeding or plan to breastfeed. Fluconazole can pass into your breastmik. Talk to your healthcare provider about the best way to feed your baby while you are taking fluconazole tablets.

Before you start taking Fluconazole Tablets, tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

- about all the medicines you take, in cluding prescription and over-the-counter medicines, viamins, and herbal supplements.

  Especially tell your healthcare provider if you take:

  clabetes medicines such as glyburide, tobutamide, glipizide

  blood pressure medicines like hydrochlorothiazide, losartan, amlodipine, verapamil infectipine or fedodipine

  provides provided in the supplement of the provider infection of organ transplants) or infection in reflability or the provides or soft in the provides or soft in the provides or soft inference or infamilion or infamilion or infability for the provides or soft infamiliary or infamiliary or infamiliary or infamiliary or infability for the provides or soft infamiliary or infability for the provides or the provides or control astimum, a quinidine (used to correct disturbances in heart rhythm)

  a middarned (used for treating uneven heartbeats 'arrhythmias')

  ambiritylism or nortroptyline for depression

  primozile for psychiatric ilines for fungal infections

  expriments of the psychiatric ilines for fungal infections

  expriments of cancer

  expriments of cancer

  fentanty, alfentania or methadone for chronic pain

  bruthin used for treating blood cancer

  lemborexant, used for the treatment of insomnia

  lipid lowering drugs such as attorwastatin, simusatatin, and fluvastatin
  non-steroidal anti-infamination of urus in full interestication of the providers of th

- disorders antiviral medications used to treat HIV like saquinavir or zidovudine tofacithib for rheumatoid arthritis variani Austriania Surpiement tokacitan a used to treat hyponatremia (low levels of sodium in your blood) or to slow katiner function decine

Since there are many brand names for these medicines, check with your healthcare provider or pharmacist if you have any questions.

- provider or parameters you have any questions.

  How should I take Fluconazole Tablets

   Take fluconazole tablets searctly as your healthcare provider tells you to.

   Take fluconazole tablets by mouth with or without flood.

   If you take too much fluconazole tablets, call your healthcare provider or go to the nearest emergency room right way.

# What should I avoid while taking Fluconazole Tablets?

Fluconazole tablets can cause dizziness and seizures. Do not drive or operate machinery until you know how fluconazole tablets affects you.

# What are the possible side effects of Fluconazole Tablets?

What are the possible side effects of Fluconazole Tablets?

Fluconazole Tablets may cause serious side effects including:

• serious liver problems. Some people with serious medical problems have developed serious liver problems that became life-threatening or caused death while taking fluconazole tablets. Sometimes these liver problems can be reversed when you stop taking fluconazole tablets. Tell your healthcare provider right away if you have symptoms of serious liver problems including:

 dark colored urine • tiredness severe skin itchina loss of appetite yellowing of the skin and eyes (jaundice)

serious allergic reactions: In rare cases, serious allergic reactions (anaphylaxis) have happened while taking fluconazole tablets. Stop taking fluconazole tablets, call your healthcare provider or go to the nearest hospital emergacy room right away if you get any signs or symptoms of an allergic reaction including:

 skin rash, hives, blisters • throbbing of the heart or or skin peeling ears swelling of the eyelids
 face, mouth, neck, or any • chills other part of the body

serious skin problems. Some people with serious medical problems have developed serious skin problems that have caused death while taking fluconazole tablets. Tell your healthcare provider right away if you develop a rash while taking fluconazole tablets.

headache	diarrhea	<ul> <li>nausea or upset stomach</li> </ul>
• dizziness	<ul> <li>stomach pain</li> </ul>	changes in the way food

Other side effects include:

• adrenal insufficiency: Some people who have taken fluconazole tablets developed adrenal insufficiency that was reversible. Tel your healthcare provider right away if you have symptoms of adrenal insufficiency including:

 stomach pain weight loss dizziness • nausea vomiting

These are not all the possible side effects of fluconazole tablets.

Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

# How should I store Fluconazole Tablets?

Store fluconazole tablets below 86°F (30°C).

# Keep fluconazole tablets and all medicines out of the reach of children General information about the safe and effective use of fluconazole tablets.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use fluconazole tablets for a condition for which it was not prescribed. Do not give fluconazole tablets to other people, even if they have the same symptoms you have. It may harm them.

You can ask your healthcare provider for information about fluconazole tablets that is written for health professionals.

# What are the ingredients in fluconazole tablets?

# Active ingredient: fluconazole

Inactive ingredients: croscarmellose sodium, dibasic calcium phosphate anhydrous, FD&C Red No. 40, magnesium stearate, microcrystalline cellulose and povidone K-30.

\*Trademarks are the property of their respective owners.

This Patient Information has been approved by the U.S. Food and Drug Administration Manufactured by:

# Glenmark Pharmaceuticals Limited

Colvale-Bardez, Goa 403513, India

Manufactured for:



November 2021

Glenmark Pharmaceuticals Inc., USA

Questions? 1 (888) 721-7115 www.glenmarkpharma-us.com

PRINCIPAL DISPLAY PANEL



	let						
Product Info	ormation						
Product Type		HUMAN PRESCRIPTION DRUG	Item (Sou	Code rce)	NDC:6 104)	8071-2805(	NDC:68462
Route of Admi	nistration	ORAL					
Active Ingre	dient/Activ	e Moiety					
	Ingi	redient Name			Basis of	Strength	Strengt
FLUCONAZOLE (	UNII: 8VZV102JI	FY) (FLUCONAZOLE - UNII:8'	VZ V102jF1	7	FLUCONAZOL	.E	200 mg
Inactive Ingr	redients						
		Ingredient Name	e				Strength
CROSCARMELLO	SE SODIUM (L	INII: M28OL1HH48)					
ANHYDROUS DIE	BASIC CALCIUM	4 PHOSPHATE (UNII: L11K	75P92J)				
FD&C RED NO. 4	10 (UNII: WZB91	27XOA)					
MAGNESIUM STE	EARATE (UNI: 7	(0097M6I30)					
POVIDONE K30	(UNII: U725QW						
POVIDONE K30	(UNII: U725QW	32X)					
POVIDONE K30	(UNII: U725QW LINE CELLULO	32X) SE (UNII: OP1R32D61U)					
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