# Itraconazole Capsules BOXED WARNING

# Congestive Heart Failure, Cardiac Effects and Drug Interaction Congestive Heart Failure and Cardiac Effects:

- Itraconazole capsules should not be administered for the treatment of onychomycosis in patients with evidence of ventricular dysfunction such as congestive heart failure (CHF) or a history of CHF. If signs or symptoms of congestive heart failure occur during administration of itraconazole capsules, discontinue administration. When itraconazole was administered intravenously to dogs and healthy human volunteers, negative inotropic effects were seen. (See CONTRAINDICATIONS, WARNINGS, PRECAUTIONS: Drug Interactions, ADVERSE REACTIONS: Postmarketing Experience, and CLINICAL PHARMACOLOGY: Special Populations for more
- information.) Drug Interactions: • Coadministration of a number of CYP3A4 substrates are contraindicated with itraconazole capsules. Some disopyramide, dofetilide, dronedarone, quinidine, isavuconazole, ergot alkaloids (such as dihydroergotamine, ergometrine (ergonovine), ergotamine, methylergometrine (methylergonovine)), irinotecan, lurasidone, oral nidazolam, pimozide, triazolam, felodípine, nisoldípine, tvabradine, ranolazine, eplerenore, cisapride, naloxegol, lomitapide, lovastatin, simvastatin, avanafil, ticagrelor, finerenone, voclosporin.
- Coadministration with colchicine, fesoterodine and solifenacin is contraindicated in subjects with varying degrees of renal or hepatic impairment. Coadministration with eligiustat is contraindicated in subjects that are poor or intermediate metabolizers of
- CYP2D6 and in subjects taking strong or moderate CYP2D6 inhibitors. Coadministration with venetoclax is contraindicated in patients with chronic lymphocytic leukemia (CLL)/small
- lymphocytic lymphoma (SLL) during the dose initiation and ramp-up phase of venetoclax. See PRECAUTIONS: Drug Interactions Section for specific examples.
- Coadministration with itraconazole can cause elevated plasma concentrations of these drugs and may increase or prolong both the pharmacologic effects and/or adverse reactions to these drugs. For example, increased plasma concentrations of some of these drugs can lead to QT prolongation and ventricular tachyarrhythmias including occurrences of torsade de pointes, a potentially fatal arrhythmia. See CONTRAINDICATIONS and WARNINGS Sections, and PRECAUTIONS: Drug Interactions Section for specific examples.

# DESCRIPTION

Itraconazole, USP is an azole antifungal agent. Itraconazole is a 1:1:1:1 racemic mixture of four diastereomers (two enantiomeric pairs), each possessing three chiral centers. It may be represented by the following structural formula and nomenclature:

3*H*-1,2,4-Triazol-3-one,4-[4-[4-[4-[4-[2-(2,4-dichlorophenyl)-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy] phenyl]-1-piperazinyl]phenyl]-2-4-dihydro-2-(1-methylpropyl)-

(±)-1-*sec*-Butyl-4-[*p*-[4-[*p*-[[(2*R*\*,4*S*\*)-2-(2,4-dichlorophenyl)-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl] methoxy]phenyl]-1-piperazinyl]phenyl]- $\Delta^2$ -1,2,4-triazolin-5-one

Itraconazole USP has a molecular formula of C35H38Cl2N8O4 and a molecular weight of 705.63. It is a white or almost white powder. It is practically insoluble in water, very slightly soluble in alcohol, freely soluble in methylene chloride, and sparingly soluble in tetrahydrofuran. It has a pKa of 3.7\* (\* Merck Index, Fifteenth Edition) and a log (n-octanol/water) partition coefficient of 5.66 at pH 8.1.

Itraconazole capsules, USP contain 100 mg of itraconazole, USP coated on sugar spheres (composed of maize starch and sucrose). Inactive ingredients are hard gelatin capsule, hypromellose, polyethylene glycol, sugar spheres & talc. In addition, the blue opaque capsule shell contains FD&C Blue No. 1, FD&C Blue No. 2, gelatin & titanium dioxide and the pink transparent body contains D&C Red No. 28 & gelatin. The imprinting ink contains black iron oxide, potassium hydroxide, propylene glycol and shellac.

# Meets USP Dissolution Test 2

Absorption

Interactions.)

Metabolism

of the dose.

Special Populations:

**Benal Imnairment** 

given. (See WARNINGS.)

about twice those of itraconazole.

# CLINICAL PHARMACOLOGY Pharmacokinetics and Metabolism:

General Pharmacokinetic Characteristics

Peak plasma concentrations of itraconazole are reached within 2 to 5 hours following oral administration. As a consequence of non-linear pharmacokinetics, itraconazole accumulates in plasma during multiple dosing. Steady-state concentrations are generally reached within about 15 days, with  $C_{max}$  values of 0.5 µg/mL, 1.1 µg/mL and 2.0 µg/ mL after oral administration of 100 mg once daily, 200 mg once daily and 200 mg b.i.d., respectively. The terminal half-life of itraconazole generally ranges from 16 to 28 hours after single dose and increases to 34 to 42 hours with repeated dosing. Once treatment is stopped, itraconazole plasma concentrations decrease to an almost undetectable concentration within 7 to 14 days, depending on the dose and duration of treatment. Itraconazole mean total plasma clearance following intravenous administration is 278 mL/min. Itraconazole clearance decreases at higher doses due to saturable hepatic metabolism.

Itraconazole is rapidly absorbed after oral administration. Peak plasma concentrations of itraconazole are reached within

The oral bioavailability of itraconazole is maximal when itraconazole capsules are taken immediately after a full meal.

Absorption of itraconazole capsules is reduced in subjects with reduced gastric acidity, such as subjects taking

medications known as gastric acid secretion suppressors (e.g., H<sub>2</sub>-receiptor antagonists, proton pump inhibitors) or subjects with achlorhydria caused by certain diseases. (See PRECAUTIONS: Drug Interactions.) Absorption of

itraconazole under fasted conditions in these subjects is increased when itraconazole capsules are administered with an

acidic beverage (such as a non-diet cola). When itraconazole capsules were administered as a single 200-mg dose under

fasted conditions with non-diet cola after ranitidine pretreatment, a H2-receptor antagonist, itraconazole absorption

was comparable to that observed when itraconazole capsules were administered alone. (See PRECAUTIONS: Drug

Itraconazole exposure is lower with the Capsule formulation than with the Oral Solution when the same dose of drug is

Most of the itraconazole in plasma is bound to protein (99.8%) with albumin being the main binding component (99.6%)

free drug, Itraconazole is distributed in a large apparent volume in the body (>700 L), suggesting extensive distribution

into tissues. Concentrations in lung, kidney, liver, bone, stomach, spleen and muscle were found to be two to three times higher than corresponding concentrations in plasma, and the uptake into keratinous tissues, skin in particular, up to four

Itraconazole is extensively metabolized by the liver into a large number of metabolites. *In vitro* studies have shown that

CYP3A4 is the major enzyme involved in the metabolism of itraconazole. The main metabolite is hydroxy-itraconazole, which has *in vitro* antifungal activity comparable to itraconazole; trough plasma concentrations of this metabolite are

Itraconazole is excreted mainly as inactive metabolites in urine (35%) and in feces (54%) within one week of an oral

solution dose. Benal excretion of itraconazole and the active metabolite hydroxy-itraconazole account for less than 1%

of an intravenous dose. Based on an oral radiolabeled dose, fecal excretion of unchanged drug ranges from 3% to 18%

As re-distribution of itraconazole from keratinous tissues appears to be negligible, elimination of itraconazole from these

discontinuation of a 4-week treatment and in nail keratin - where itraconazole can be detected as early as 1 week after

Limited data are available on the use of oral itraconazole in patients with renal impairment. A pharmacokinetic study

using a single 200 mg oral dose of itraconazole was conducted in three groups of patients with renal impairment

(uremais: n=7; hemodalysis: n=7; and continuous ambulatory peritoneal dialysis: n=5). In uremic subjects with a mean creatinine clearance of 13 mL/min. × 1.73 m<sup>2</sup>, the exposure, based on AUC, was slightly reduced compared with normal

tissues is related to epidermal regeneration. Contrary to plasma, the concentration in skin persists for 2 to 4 weeks after

times higher. Concentrations in the cerebrospinal fluid are much lower than in plasma.

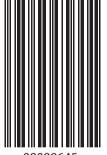
start of treatment – for at least six months after the end of a 3-month treatment period.

for the hydroxy-metabolite). It has also a marked affinity for lipids. Only 0.2% of the itraconazole in plasma is present as

2 to 5 hours following an oral capsule dose. The observed absolute oral bioavailability of itraconazole is about 55%.

Itraconazole Capsules

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should be discontinued. (See BOXED WARNING, CONTRAINDICATIONS, WARNINGS, PRECAUTIONS: Drug Interactions and ADVERSE REACTIONS: Postmarketing Experience for more information.) MICROBIOLOGY Mechanism of Action

### In vitro studies have demonstrated that itraconazole inhibits the cytochrome P450-dependent synthesis of ergosterol. which is a vital component of fungal cell membranes

Antimicrobial Activity Itraconazole exhibits in vitro activity against Blastomyces dermatitidis. Histoplasma capsulatum, Histoplasma duboisii. Aspergillus flavus, Aspergillus fumigatus, and Trichophyton species (See INDICATIONS AND USAGE: Description of

### Clinical Studies). Suscentibility Testing Methods:

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. Resistance

Isolates from several fungal species with decreased susceptibility to itraconazole have been isolated in vitro and from patients receiving prolonged therapy.

Itraconazole is not active against Zygomycetes (e.g., Rhizopus spp., Rhizomucor spp., Mucor spp. and Absidia spp.), Fusarium spp., Scedosporium spp. and Scopulariopsis spp.

# Cross-Resistance:

Several in vitro studies have reported that some fungal clinical isolates with reduced susceptibility to one azole antifungal agent may also be less susceptible to other azole derivatives. The finding of cross-resistance is dependent on a number of factors, including the species evaluated, its clinical history, the particular azole compounds compared, and the type of susceptibility test that is performed. Studies (both in vitro and in vivo) suggest that the activity of amphotericin B may be suppressed by prior azole antifungal

# therapy. As with other azoles, itraconazole inhibits the <sup>14</sup>C-demethylation step in the synthesis of ergosterol, a cell wall

component of fungi. Ergosterol is the active site for amphotericin B. In one study the antifungal activity of amphotericin B against Aspergillus fumigatus infections in mice was inhibited by ketoconazole therapy. The clinical significance of test

### results obtained in this study is unknown. INDICATIONS AND USAGE

Itraconazole capsules are indicated for the treatment of the following fungal infections in immunocompromised and non-immunocompromised patients:

- 1. Blastomycosis, pulmonary and extrapulmonary 2. Histoplasmosis, including chronic cavitary pulmonary disease and disseminated, non-meningeal
- histoplasmosis, and 3. Aspergillosis, pulmonary and extrapulmonary, in patients who are intolerant of or who are refractory to amphotericin B therapy.

Specimens for fungal cultures and other relevant laboratory studies (wet mount, histopathology, serology) should be obtained before therapy to isolate and identify causative organisms. Therapy may be instituted before the results of the cultures and other laboratory studies are known; however, once these results become available, antiinfective therapy should be adjusted accordingly.

Itraconazole capsules are also indicated for the treatment of the following fungal infections in non-immunocompromised patients:

1. Onychomycosis of the toenail, with or without fingernail involvement, due to dermatophytes (tinea unguium),

2. Onvchomycosis of the fingernail due to dermatophytes (tinea unguium). Prior to initiating treatment, appropriate nail specimens for laboratory testing (KOH preparation, fungal culture, or nail

biopsy) should be obtained to confirm the diagnosis of onychomycosis (See CLINICAL PHARMACOLOGY: Special Populations, CONTRAINDICATIONS, WARNINGS, and ADVERSE REACTIONS: ostmarketing Experience for more information.)

# Description of Clinical Studies: Blastomycosis:

Analyses were conducted on data from two open-label, non-concurrently controlled studies (N=73 combined) in patients with normal or abnormal immune status. The median dose was 200 mg/day. A response for most signs and symptoms was observed within the first 2 weeks, and all signs and symptoms cleared between 3 and 6 months. Results of these two studies demonstrated substantial evidence of the effectiveness of itraconazole for the treatment of blastomycosis compared with the natural history of untreated cases.

# Histoplasmosis:

Analyses were conducted on data from two open-label, non-concurrently controlled studies (N=34 combined) in patients with normal or abnormal immune status (not including HIV-infected patients). The median dose was 200 mg/day. A response for most signs and symptoms was observed within the first 2 weeks, and all signs and symptoms cleared between 3 and 12 months. Results of these two studies demonstrated substantial evidence of the effectiveness of itraconazole for the treatment of histoplasmosis, compared with the natural history of untreated cases. Histoplasmosis in HIV-infected patients:

Data from a small number of HIV-infected patients suggested that the response rate of histoplasmosis in HIV-infected patients is similar to that of non-HIV-infected patients. The clinical course of histoplasmosis in HIV-infected patients is more severe and usually requires maintenance therapy to prevent relapse.

# Analyses were conducted on data from an open-label, "single-patient-use" protocol designed to make itraconazole variable in the U.S. for patients who either failed or, were inclorant of amphotericin B therapy (N=190). The findings were corroborated by two smaller open-label studies (N=31 combined) in the same patient population. Most adult patients were treated with a daily dose of 200 to 400 mg, with a median duration of 3 months. Results of these studies demonstrated substantial evidence of effectiveness of itraconazole as a second-line therapy for the treatment of aspergillosis compared with the natural history of the disease in patients who either failed or were intolerant of

### amphotericin B therapy. Onvchomycosis of the toenail

Analyses were conducted on data from three double-blind, placebo-controlled studies (N=214 total: 110 given ole capsules) in which patients with onychomycosis of the toenails received 200 mg of itraconazole capsules once daily for 12 consecutive weeks. Results of these studies demonstrated mycologic cure, defined as simultaneous ence of negative KOH plus negative culture, in 54% of patients. Thirty-five percent (35%) of patients were considered an overall success (mycologic cure plus clear or minimal nail involvement with significantly decreased signs) and 14% of patients demonstrated mycologic cure plus clinical cure (clearance of all signs, with or without residual nail The mean time to overall success was approximately 10 months. Twenty-one percent (21%) of the overall success group had a relapse (worsening of the global score or conversion of KOH or culture from negative to positive). Onvchomycosis of the fingernail:

# Analyses were conducted on data from a double-blind, placebo-controlled study (N=73 total; 37 given itraconazole capsules) in which patients with onychomycosis of the fingernails received a 1-week course of 200 mg of itraconazole capsules b.i.d., followed by a 3-week period without itraconazole, which was followed by a second 1-week course of 200 mg of itraconazole capsules b.i.d. Results demonstrated mycologic cure in 61% of patients. Fifty-six percent (56%) of patients were considered an overall success and 47% of patients demonstrated mycologic cure plus clinical cure. The mean time to overall success was approximately 5 months. None of the patients we achieved overall success relapsed.

# CONTRAINDICATIONS **Congestive Heart Failure**

Itraconazole capsules should not be administered for the treatment of onychomycosis in patients with evidence of ventricular dysfunction such as congestive heart failure (CHF) or a history of CHF. (See BOXED WARNING, WARNINGS, PRECAUTIONS: Drug Interactions-Calcium Channel Blockers, ADVERSE REACTIONS: Postmarketing Experience, and CLINICAL PHARMACOLOGY Special Populations )

**Drug Interactions:** inistration of a number of CYP3A4 substrates are contraindicated with itraconazole. Some examples of drugs for which plasma concentrations increase are: methadone, disopyramide, dofetilide, dronedarone, guinidine, isavuconazole, ergot alkaloids (such as dihydroergotamine, ergometrine (ergonovine), ergotalkaloids (such as dihydroergotamine, ergometrine), ergotalkaloids (such as dihydroergotamine, ergometrine), ergotalkaloids (such as dihydroergotamine, ergometrine), ergotalkaloids (such as dihydroergotamine), ergotalkaloids (such as dihydroergotamine, ergometrine), ergotalkaloids (such as dihydroergotamine), ergot voclosporin. In addition, coadministration with colchicine, fesoterodine and solifenacin is contraindicated in subjects with varying degrees of renal or hepatic impairment, and coadministration with eliglustat is contraindicated in subjects hat are poor or intermediate metabolizers of CYP2D6 and in subjects taking strong or moderate CYP2D6 inhibitors. (See PRECAUTIONS: Drug Interactions Section for specific examples.) This increase in drug concentrations caused by istration with itraconazole may increase or prolong both the pharmacologic effects and/or adverse reactions to these drugs. For example, increased plasma concentrations of some of these drugs can lead to QT prolongation and ventricular tachyarrhythmias including occurrences of torsade de pointes, a potentially fatal arrhythmia. Some specific examples are listed in PRECAUTIONS: Drug Interactions.

Coadministration with venetoclax is contraindicated in patients with CLL/SLL during the dose initiation and ramp-up phase of venetoclax due to the potential for an increased risk of tumor lysis syndrom Itraconazole should not be administered for the treatment of onychomycosis to pregnant patients or to women

Itraconazole is contraindicated for patients who have shown hypersensitivity to itraconazole. There is limited information regarding cross-hypersensitivity between itraconazole and other azole antifungal agents. Caution should be used when prescribing itraconazole to patients with hypersensitivity to other azoles

# Hepatic Effects:

Itraconazole has been associated with rare cases of serious hepatotoxicity, including liver failure and death. Some of these cases had neither pre-existing liver disease nor a serious underlying medical condition, and some of these cases developed within the first week of treatment. If clinical signs or symptoms develop that are consistent with liver disease, treatment should be discontinued and liver function testing performed. Continued itraconazole use or reinstitution of treatment with itraconazole is strongly discouraged unless there is a serious or life-threatening situation where the expected benefit exceeds the risk. (See PRECAUTIONS: Information for Patients and ADVERSE REACTIONS.)

# Cardiac Dysrhythmias

pimozide, methadone, or quinidine concomitantly with itraconazole and/or other CYP3A4 inhibitors. Concomitant administration of these drugs with itraconazole is contraindicated. (See BOXED WARNING, CONTRAINDICATIONS, and

Cardiac Disease Itraconazole capsules should not be ventricular dysfunction such as con be used for other indications in pat

the risk. For patients with risk factors for c of itraconazole therapy. These risk pulmonary disease such as chronic Such patients should be informed o monitored for signs and symptoms

of itraconazole capsules, discontinu Itraconazole has been shown to have anesthetized dogs, a dose-related ne intravenous infusion, transient, asyr SPECT imaging; these resolved befor

Itraconazole has been associated with was more frequently reported in patie among those receiving lower total dai Calcium channel blockers can have ne

itraconazole can inhibit the metabo administering itraconazole and calcin itraconazole and felodipine or nisoldi Cases of CHF, peripheral edema, an

patients being treated for onychomy Populations, CONTRAINDICATIONS Experience for more information.) Pseudoaldosteronism: Pseudoaldosteronism, manifested by

findings (hypokalemia low serum traconazole use in the postmarket Management of pseudoaldosteronis antifungal drug that is not associated Interaction Potential:

Itraconazole has a potential for clinic may result in changes in efficacy of it death. Drugs that are contraindicate itraconazole are listed in PRECAUTIO Interchangeability:

Itraconazole capsules and itraconazol greater with the oral solution than with of mucosal exposure may be differe effective for oral and/or esophageal

# PRECAUTIONS

Itraconazole capsules should be adm and Metabolism).

Under fasted conditions, itraconazo absorption of itraconazole may be de essors. Studies conducted un cola beverage resulted in increased This increase relative to the effects o Metabolism).

**Hepatotoxicity** Rare cases of serious hepatotoxici the first week. It is recommended the

Treatment should be stopped immed and symptoms suggestive of liver dys Neuropathy If neuropathy occurs that may be attri

Immunocompromised Patients: In some immunocompromised pat of itraconazole capsules may be deci these patients

# Cystic Fibrosis:

If a cystic fibrosis patient does not alternative therapy. For more informa information for itraconazole oral solu

Hearing Loss: Transient or permanent hearing loss these reports included concurrent a Interactions, CONTRAINDICATIONS: resolves when treatment is stopped Information for Patients:

The topical effects of mucosal e

- the oral solution has been der should not be used interchangea Instruct patients to take itracona:
- Instruct patients about the signs during itraconazole administrati
- Instruct patients to stop itraco and symptoms suggestive of liv anorexia, nausea and/or vomitir
- Instruct patients to contact their there are no potential drug inter
- Instruct patients that hearing lo treatment is stopped, but can physicians if any hearing loss sy
- Instruct patients that dizziness or if they experience these events **Drug Interactions:**

# Effect of Itraconazole Capsules on O

Itraconazole and its major metabolite the drug transporters P-glycoprotein potential to interact with many conco of the concomitant drugs. Increased comitant drug which can be sev respiratory depression, hepatic adver ema, atrial fibrillation, brady efficacy. Table 1 lists examples of dr

comprehensive list. Refer to the approved product labeli actions to be taken with regards to ea Although many of the clinical drug

ketoconazole, these interactions are Table 1: Drug Interactions with Itr

Examples of Concomitant Drugs W Drug Interactions with Itraconazo Adverse Reactions Associated wi Alpha Blockers

# Alfuzosin nsulosin Analgesics lethadone entanvl Alfentanil Buprenorphine (IV and sublingual) codone Antiarrhythmic Dronedarone

Quinidine<sup>a</sup>

ening cardiac dysrhythmias and/or sudden death have occurred in patients using drugs such as cisapride, PRECAUTIONS: Drug Interactions.)

population parameters. This study did not demonstrate any significant effect of hemodialysis or continuous ambulatory peritoneal dialysis on the pharmacokinetics of itraconazole ( $T_{max}$ ,  $C_{max}$ , and AUC<sub>0 to 8h</sub>). Plasma concentration-versustime profiles showed wide intersubject variation in all three groups. After a single intravenous dose, the mean terminal half-lives of itraconazole in patients with mild (defined in this study as CrCl 50 to 79 mL/min), moderate (defined in this study as CrCl 20 to 49 mL/min), and severe renal impairment (defined in this study as CrCl <20 mL/min) were similar to contemplating pregnancy. that in healthy subjects (range of means 42 to 49 hours in the study impaired patients and healthy subjects, respectively). Overall exposure to itraconazole, based on AUC, was decreased in patients with moderate and severe renal impairment by approximately 30% and 40%, respectively, as compared with subjects with normal renal function. Data impainment by approximately do a an 40 %, respectively, as compared with subjects with normal function. Data are not available in renally impaired patients during long-term use of firsconazole. Dialysis has no effect on the half-life or clearance of itraconazole or hydroxy-itraconazole. (See PRECAUTIONS and DOSAGE AND ADMINISTRATION.) WARNINGS

# Hepatic Impairment:

Itraconazole is predominantly metabolized in the liver. A pharmacokinetic study was conducted in 6 healthy and 12 cirrhotic subjects who were administered a single 100 mg dose of itraconazole as capsule. A statistically significant reduction in mean C<sub>max</sub> (47%) and a world increase in the elimination half-life (37±17 hours vs. 16±5 hours) of itraconazole were noted in cirrhotic subjects compared with healthy subjects. However, overall exposure to itraconazole, based on AUC, was similar in cirrhotic patients and in healthy subjects. Data are not available in cirrhotic patients during long-term use of itraconazole. (See CONTRAINDICATIONS, PRECAUTIONS: Drug Interactions and DOSAGE AND ADMINISTRATION.)

documented. In a healthy volunteer study of itraconazole intravenous infusion transient, asymptomatic decreases in left ventricular ejection fraction were observed using gated SPECT imaging; these resolved before the next infusion, 12 hours

later. If signs or symptoms of congestive heart failure appear during administration of itraconazole capsules, itraconazole

### Decreased Cardiac Contractility: When itraconazole was administered intravenously to anesthetized dogs, a dose-related negative inotropic effect was

Itraconazole Capsules, USP	COUNTRY : US	LOCATION : Inc	Irad/Dahej		Supersedes A/W No.:	
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S/S		Reviewed By	Pkg. Dev.			
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	or the treatment of onychomycosis in patients with evidence of	Digoxin <sup>a</sup>		Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.	Immunosuppressants
	ilure (CHF) or a history of CHF. Itraconazole capsules should not ce of ventricular dysfunction unless the benefit clearly outweighs	Antibacterials			Voclosporin
congestive heart f	ailure, physicians should carefully review the risks and benefits	Bedaquiline <sup>b</sup>		Concomitant itraconazole not recommended for more than 2 weeks at any time during bedaquiline treatment.	Everolimus Sirolimus
k factors include c	ardiac disease such as ischemic and valvular disease; significant nonary disease; and renal failure and other edematous disorders.	Rifabutin		Not recommended 2 weeks before, during, and 2 weeks after itraconazole treatment. See also Table 2.	Temsirolimus (IV) Budesonide
of the signs and symptoms of CHF, should be treated with caution, and should be s of CHF during treatment. If signs or symptoms of CHF appear during administration		Clarithromycin		Monitor for adverse reactions. Concomitant drug dose reduction may be necessary. See also Table 2.	(inhalation) <sup>a</sup> Fluticasone Budesonide (inhalation) <sup>a</sup>
ue administration.	ropic effect. When itraconazole was administered intravenously to	Trimetrexate		Monitor for adverse reactions. Concomitant drug dose	- (non-inhalation) Fluticasone (nasa Ciclesonide (inhalation) Methylprednisolo
negative inotropic e	ffect was documented. In a healthy volunteer study of itraconazole ses in left ventricular ejection fraction were observed using gated	Anticoagulants and Anti	platelets	reduction may be necessary.	Cyclosporine (IV) <sup>a</sup> Tacrolimus (IV) <sup>a</sup> Cyclosporine (non-IV) Tacrolimus (oral)
fore the next infusi	on, 12 hours later.	Ticagrelor	•	Contraindicated during and 2 weeks after itraconazole treatment.	Dexamethasone <sup>a</sup>
atients receiving a t	ngestive heart failure. In postmarketing experience, heart failure otal daily dose of 400 mg although there were also cases reported	Apixaban		Not recommended during and 2 weeks after itraconazole	Lomitapide Lovastatin <sup>a</sup>
daily doses. e negative inotropic	effects which may be additive to those of itraconazole. In addition,	Rivaroxaban Vorapaxar		treatment.	Simvastatin <sup>a</sup>
	channel blockers. Therefore, caution should be used when co- ers due to an increased risk of CHF. Concomitant administration of	Cilostazol Dabigatran		Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.	Atorvastatina
dipine is contraind	icated. Idema have been reported in the postmarketing period among	Warfarin Anticonvulsants			Respiratory Drugs
nycosis and/or sys	Emic fungal infections. (See CLINICAL PHARMACOLOGY: Special Drug Interactions, and ADVERSE REACTIONS: Postmarketing	Carbamazepine		Not recommended 2 weeks before, during, and 2 weeks after itraconazole treatment. See also Table 2.	Salmeterol SSRIs, Tricyclics and Related Antidepress
		Antidiabetic Drugs			Venlafaxine
	pertension or worsening of hypertension, and abnormal laboratory	Repaglinide <sup>a</sup> Saxagliptin		Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.	Urologic Drugs
ing setting. Monito	terone, and elevated 11-deoxycortisol), has been reported with r blood pressure and potassium levels and manage as necessary. discontinuation of itraconazole, substitution with an appropriate	Antihelminthics, Antifur	igals and Antiprotozoals	Contraindicated during and 2 weeks after itraconazole	Avanafil
	osteronism, or use of aldosterone receptor antagonists.	Isavuconazonium		treatment.	-
	g interactions. Coadministration of specific drugs with itraconazole	Praziquantel		Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.	Fesoterodine
ated, not recomme	or the coadministered drug, life-threatening effects and/or sudden nded or recommended for use with caution in combination with	Artemether-lumefantrine Quinine <sup>a</sup>		Monitor for adverse reactions.	
IONS: Drug Interac	nions.	Antimigraine Drugs Ergot alkaloids (e.g., dihy	/droergotamine	Contraindicated during and 2 weeks after itraconazole	
	ould not be used interchangeably. This is because drug exposure is /hen the same dose of drug is given. In addition, the topical effects	ergotamine)	yuroergotamme,	treatment.	Solifenacin
erent between the I candidiasis.	two formulations. Only the oral solution has been demonstrated	Eletriptan		Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.	
		Antineoplastics		Contraindicated during and 2 weeks after itraconazole	Darifenacin
administered after	a full meal. (See CLINICAL PHARMACOLOGY: Pharmacokinetics	Irinotecan		treatment.	Vardenafil Dutasteride
zole absorption w	as decreased in the presence of decreased gastric acidity. The	Venetoclax		Contraindicated during the dose initiation and ramp-up phase in patients with CLL/SLL. Refer to the venetoclax prescribing information for dosing and safety monitoring instructions.	Oxybutynin <sup>a</sup> Sildenafil (for erectile dysfunction)
decreased with the	e concomitant administration of antacids or gastric acid secretion ons demonstrated that administration with 8 ounces of a non-diet	Mobocertinib <sup>a</sup>		Avoid use during and 2 weeks after itraconazole treatment.	Tadalafil (for erectile dysfunction and benign prostatic hyperplasia)
	aconazole in AIDS patients with relative or absolute achlorhydria. nknown. (See CLINICAL PHARMACOLOGY: Pharmacokinetics and	Axitinib Bosutinib	Ibrutinib Lapatinib		Tolterodine Miscellaneous Drugs and Other Substance
		Cabazitaxel Cabozantinib	Nilotinib Olaparibª		miscenaneous brugs and other Substance
	served with itraconazole treatment, including some cases within monitoring be considered in all patients receiving itraconazole.	Ceritinib Cobimetinib <sup>a</sup>	Pazopanib Sunitinib	Avoid use during and 2 weeks after itraconazole treatment.	Colchicine
	inction testing should be conducted in patients who develop signs	Crizotinib Dabrafenib	Trabectedin Trastuzumab-		
	second concurs the treatment should be discontinued	Dasatinib Docetaxel	emtansine Vinca alkaloids		-
IIIIIDUIADIE IO IIIACO	nazole capsules, the treatment should be discontinued.	Entrectinib <sup>a</sup> Pemigatinib <sup>a</sup>		Refer to the entrectinib, pemigatinib and talazoparib prescribing information for dosing instructions if concomitant use cannot	Eliglustat
	penic, AIDS or organ transplant patients), the oral bioavailability e, the dose should be adjusted based on the clinical response in	Talazoparib <sup>a</sup> Glasdegib		be avoided. Refer to the glasdegib prescribing information for safety	
		Bortezomib		monitoring if concomitant use cannot be avoided.	Lumacaftor/Ivacaftor
	nazole capsules, consideration should be given to switching to he use of itraconazole in cystic fibrosis patients see the prescribing	Brentuximab-vedotin Busulfanª	Nintedanib Panobinostat Ponatinib	Monitor for adverse reactions. Concomitant drug dose	Alitretinoin (oral) Cabergoline
olution.		Erlotinib Gefitinib <sup>a</sup>	Ruxolitinib Sonidegib	reduction may be necessary. For idelalisib, see also Table 2.	Cannabinoids Cinacalcet
	rted in patients receiving treatment with itraconazole. Several of quinidine which is contraindicated (See BOXED WARNING: Drug	Idelalisib Imatinib	Tretinoin (oral) Vandetanib <sup>a</sup>		Galantamine Ivacaftor
	s and PRECAUTIONS: Drug Interactions). The hearing loss usually	Ixabepilone Antipsychotics, Anxiolyt	ics and Hypnotics		Valbenazine
	different between the itraconazole capsules and oral solution. Only	Alprazolam <sup>a</sup> Aripiprazole <sup>a</sup>	Midazolam (IV) <sup>a</sup>	Manitas fas adures sociars. Concernitas dura doco	Vasopressin Receptor Antagonists
	ive for oral and/or esophageal candidiasis. Itraconazole capsules	Buspirone <sup>a</sup> Cariprazine	Quetiapine Ramelteon Risperidoneª	Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.	Conivaptan Tolvaptan
	th a full meal. Itraconazole capsules must be swallowed whole.	Diazepam <sup>a</sup> Haloperidol <sup>a</sup>	Suvorexant		Drug Interactions with Itraconazole that De the Concomitant Drug
	of congestive heart failure, and if these signs or symptoms occur discontinue itraconazole and contact their healthcare provider	Zopiclone <sup>a</sup>		Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.	Antineoplastics
conazole treatment	immediately and contact their healthcare provider if any signs	Lurasidone Midazolam (oral)ª		Contraindicated during and 2 weeks after itraconazole	Regorafenib
liver dysfunction	urine, or pale stools.	Pimozide Triazolamª		treatment.	Gastrointestinal Drugs
eir physician befor	e taking any concomitant medications with itraconazole to ensure	Antivirals			Saccharomyces boulardii Nonsteroidal Anti-Inflammatory Drugs
eractions. loss can occur wit	h the use of itraconazole. The hearing loss usually resolves when	Daclatasvir Indinavir <sup>a</sup>		Monitor for adverse reactions. Concomitant drug dose reduction may be necessary. For indinavir, see also Table 2.	Meloxicam <sup>a</sup>
n persist in some symptoms occur.	patients. Advise patients to discontinue therapy and inform their	Maraviroc Cobicistat			<ul> <li>*CYP3A4 inhibitors (including itraconazole) <sup>a</sup> Based on clinical drug interaction informatic</li> </ul>
	vision can sometimes occur with itraconazole. Advise patients that drive or use machines.	Elvitegravir (ritonavir-bo Ombitasvir/Paritaprevir/F		Monitor for adverse reactions. See also Table 2.	<ul> <li><sup>b</sup> Based on 400 mg bedaquiline once daily for</li> <li><sup>c</sup> EMs: extensive metabolizers; IMs: intermediate</li> </ul>
		Dasabuvir Ritonavir			Effect of Other Drugs on Itraconazole Itraconazole is mainly metabolized through C <sup>N</sup>
	nazole, are potent CYP3A4 inhibitors. Itraconazole is an inhibitor of	Saquinavir (unboosted) <sup>a</sup> Elbasvir/grazoprevir		Not recommended during and 2 weeks after itraconazole	<ul> <li>CYP3A4 activity may influence the pharmac interact with itraconazole resulting in either in</li> </ul>
icomitant drugs res	cer resistance protein (BCRP). Consequently, itraconazole has the sulting in either increased or sometimes decreased concentrations may increase the risk of adverse reactions associated with the	Glecaprevir/pibrentasvir		treatment.	concentrations may increase the risk of adverteduce itraconazole efficacy.
evere or life-threat	ening in some cases (e.g., QT prolongation, torsade de pointes, persensitivity reactions, myelosuppression, hypotension, seizures,	Tenofovir disoproxil fum	arate	Monitor for adverse reactions. Monitor for adverse reactions.	Table 2 lists examples of drugs that may aff the approved product labeling to become fam
dycardia, priapism)	. Reduced concentrations of concomitant drugs may reduce their ave their concentrations affected by itraconazole, but it is not a	Beta Blockers		Monitor for adverse reactions. Concomitant drug dose	taken with regards to each concomitant drug
		Nadolol <sup>a</sup> Calcium Channel Blocke	170	reduction may be necessary.	Although many of the clinical drug interacti ketoconazole, these interactions are expected
	amiliar with the interaction pathways, risk potential, and specific drug prior to initiating therapy with itraconazole.	Felodipine <sup>a</sup>	10	Contraindicated during and 2 weeks after itraconazole	Table 2: Drug Interactions with Other Drug
	able 1 are based on information with a similar azole antifungal, r with itraconazole.	Nisoldipine Diltiazem		treatment. Monitor for adverse reactions. Concomitant drug dose	Examples of Concomitant Drugs Within Cla Drug Interactions with Other Drugs that Inc
	fect Concomitant Drug Concentrations	Other dihydropyridines Verapamil		reduction may be necessary. For diltiazem, see also Table 2.	Reactions Associated with Itraconazole Antibacterials
Within Class ole that Increase C	Prevention or Management concomitant Drug Concentrations and May Increase Risk of	Cardiovascular Drugs, N Ivabradine	Aiscellaneous	Contraindicated during and 2 weeks after itraconazole	Ciprofloxacin <sup>a</sup>
ith the Concomita		Ranolazine		treatment.	Erythromycin <sup>a</sup> Clarithromycin <sup>a</sup>
	Not recommended during and 2 weeks after itraconazole	Aliskiren <sup>a</sup> Riociguat	(hyportonoion)	Not recommended during and 2 weeks after itraconazole treatment. For sildenafil and tadalafil, see also Urologic Drugs	Antineoplastics
	treatment.	Sildenafil (for pulmonary Tadalafil (for pulmonary	hypertension)	below.	Idelalisib
	Destruit dischal durch and Durch (1979)	Bosentan Guanfacine		Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.	Antivirals Cobicistat
	Contraindicated during and 2 weeks after itraconazole treatment.	Contraceptives* Dienogest			Darunavir (ritonavir-boosted) Elvitegravir (ritonavir-boosted)
	Not recommended during and 2 weeks after itraconazole treatment.	Ulipristal		Monitor for adverse reactions.	Fosamprenavir (ritonavir-boosted) Indinavir <sup>a</sup>
])	Monitor for adverse reactions. Concomitant drug dose	Diuretics Eplerenone		Contraindicated during and 2 weeks after itraconazole	Ombitasvir/ Paritaprevir/ Ritonavir with or without Dasabuvir
,	reduction may be necessary.	Finerenone Gastrointestinal Drugs		treatment.	Ritonavir Saquinavir
		Cisapride Naloxegol		Contraindicated during and 2 weeks after itraconazole treatment.	Calcium Channel Blockers
	Contraindicated during and 2 weeks after itraconazole	Aprepitant		Monitor for adverse reactions. Concomitant drug dose	Diltiazem
	treatment.	Loperamide <sup>a</sup> Netupitant		reduction may be necessary. Monitor for adverse reactions.	Drug Interactions with Other Drugs that De Itraconazole

Immunosuppressants	
Voclosporin	Contraindicated during and for 2 weeks after itraconazole
Everolimus	treatment.
Sirolimus Temsirolimus (IV)	Not recommended during and 2 weeks after itraconazole treatment.
Budesonide	
(inhalation) <sup>a</sup> Fluticasone Budesonide (inhalation) <sup>a</sup>	
(non-inhalation) Fluticasone (nasal) Ciclesonide (inhalation) Methylprednisolone <sup>a</sup>	Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.
Cyclosporine (IV) <sup>a</sup> Tacrolimus (IV) <sup>a</sup> Cyclosporine (non-IV) Tacrolimus (oral)	
Dexamethasone	
Lipid-Lowering Drugs	
Lovastatina	Contraindicated during and 2 weeks after itraconazole treatment.
Simvastatin <sup>a</sup>	Monitor for drug adverse reactions. Concomitant drug dose
Atorvastatina	reduction may be necessary.
Respiratory Drugs	
Salmeterol	Not recommended during and 2 weeks after itraconazole treatment.
SSRIs, Tricyclics and Related Antidepressants	
Venlafaxine	Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.
Urologic Drugs	reduction may be necessary.
Avanafil	Contraindicated during and 2 weeks after itraconazole
	treatment. Patients with moderate to severe renal or hepatic impairment.
	Contraindicated during and 2 weeks after itraconazole
Fesoterodine	treatment.
	Other patients: Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.
	Patients with severe renal or moderate to severe hepatic
	<i>impairment</i> : Contraindicated during and 2 weeks after itraconazole treatment.
Solifenacin	
	Other patients: Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.
Darifenacin	Not recommended during and 2 weeks after itraconazole
Vardenafil Dutasteride	treatment.
Oxybutynin <sup>a</sup>	Monitor for adverse reactions. Concomitant drug dose
Sildenafil (for erectile dysfunction) Tadalafil (for erectile dysfunction and	reduction may be necessary. For sildenafil and tadalafil, see
benign prostatic hyperplasia)	also Cardiovascular Drugs above.
Tolterodine Miscellaneous Drugs and Other Substances	
	Patients with renal or hepatic impairment: Contraindicated
Colchicine	during and 2 weeks after itraconazole treatment.
	Other patients: Not recommended during and 2 weeks after itraconazole treatment.
	CYP2D6 EMs <sup>c</sup> taking a strong or moderate CYP2D6 inhibitor, CYP2D6 IMs <sup>c</sup> , or CYP2D6 PMs <sup>c</sup> ; Contraindicated during and
Eliquetet	<i>CYP2D6 IMs<sup>c</sup>, or CYP2D6 PMs<sup>c</sup></i> : Contraindicated during and 2 weeks after itraconazole treatment.
Eliglustat	CYP2D6 EMs <sup>c</sup> not taking a strong or moderate CYP2D6
	<i>inhibitor</i> : Monitor for adverse reactions. Eliglustat dose reduction may be necessary.
Lumacaftor/lvacaftor	Not recommended 2 weeks before, during, and 2 weeks after itraconazole treatment.
Alitretinoin (oral)	ווימטטומבטופ וויפמנווופווג.
Cabergoline	Monitor for advarse reactions. Concernitant drug door
Cannabinoids Cinacalcet	Monitor for adverse reactions. Concomitant drug dose reduction may be necessary.
Galantamine Ivacaftor	
Valbenazine	Concomitant drug dose reduction is necessary. Refer to the
Vasopressin Receptor Antagonists	valbenazine prescribing information for dosing instructions.
Conivaptan	Not recommended during and 2 weeks after itraconazole
Tolvaptan	treatment. e Concomitant Drug Concentrations and May Reduce Efficacy of
the Concomitant Drug	- consolition of the concentrations and may reduce chicacy of
Antineoplastics	Not recommended during and 0 and the first the second
Regorafenib	Not recommended during and 2 weeks after itraconazole treatment.
Gastrointestinal Drugs	
Saccharomyces boulardii	Not recommended during and 2 weeks after itraconazole treatment.
Nonsteroidal Anti-Inflammatory Drugs	
Meloxicam <sup>a</sup>	Concomitant drug dose increase may be necessary.
	rease systemic contraceptive hormone concentrations.
Based on clinical drug interaction information with	
EMs: extensive metabolizers; IMs: intermediate met	
EMs: extensive metabolizers; IMs: intermediate met Effect of Other Drugs on Itraconazole traconazole is mainly metabolized through CYP3A4.	tabolizers, PMs: poor metabolizers Other substances that either share this metabolic pathway or modif
EMs: extensive metabolizers; IMs: intermediate met Effect of Other Drugs on Itraconazole traconazole is mainly metabolized through CYP3A4. CYP3A4 activity may influence the pharmacokinetic	tabolizers, PMs: poor metabolizers Other substances that either share this metabolic pathway or modif cs of itraconazole. Some concomitant drugs have the potential t
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EMs: extensive metabolizers; IMs: intermediate met Effect of Other Drugs on Itraconazole traconazole is mainly metabolized through CYP3A4. ZYP3A4 activity may influence the pharmacokinetin interact with itraconazole resulting in either increased concentrations may increase the risk of adverse rea- reduce itraconazole efficacy. Table 2 lists examples of drugs that may affect itra he approved product labeling to become familiar wi aken with regards to each concomitant drug prior to	tabolizers, PMs: poor metabolizers Other substances that either share this metabolic pathway or modif cs of itraconazole. Some concomitant drugs have the potential d or sometimes decreased concentrations of itraconazole. Increase ctions associated with itraconazole. Decreased concentrations ma conazole concentrations, but is not a comprehensive list. Refer t th the interaction pathways, risk potential and specific actions to b o initiating therapy with itraconazole.
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EMs: extensive metabolizers; IMs: intermediate met Effect of Other Drugs on Itraconazole Itraconazole is mainly metabolized through CYP3A4. CYP3A4 activity may influence the pharmacokinetic netract with itraconazole resulting in either increase concentrations may increase the risk of adverse rea reduce itraconazole efficacy. Table 2 lists examples of drugs that may affect itra the approved product labeling to become familiar wi taken with regards to each concomitant drug prior to Although many of the clinical drug interactions in reloconazole, these interactions are expected to occ <b>Table 2: Drug Interactions with Other Drugs that P</b>	tabolizers, PMs: poor metabolizers Other substances that either share this metabolic pathway or modif cs of itraconazole. Some concomitant drugs have the potential t d or sometimes decreased concentrations of itraconazole. Increase ctions associated with itraconazole. Decreased concentrations ma conazole concentrations, but is not a comprehensive list. Refer t th the interaction pathways, risk potential and specific actions to b o initiating therapy with itraconazole. Table 2 are based on information with a similar azole antifunga ur with itraconazole.
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PRODUCT NAME	: Itraconazole Capsules, USP	COUNTRY : US	LOCATION : In	idrad/Dahej		Supersedes A/W No.:	
ITEM / PACK	: Outsert	NO. OF COLORS: 1	REMARK :				V. No. : 01
DESIGN STYLE	: Back Side	PANTONE SHADE NOS.:	SUBSTRATE :				
CODE	: 8099645	Black	Activities	Department	Name	Signature	Date
DIMENSIONS (MM)	: 560 x 375		Prepared By	Pkg. Dev.			
ART WORK SIZE	: S/S		Reviewed By	Pkg. Dev.			
DATE	: 08-01-2025	Font Size 6 pt_Med. 10 pt	Approved By	Quality			

Antibacterials			
Isoniazid Rifampicinª	Not recommended 2 weeks before and during itraconazole treatment.		
Rifabutin <sup>a</sup>	Not recommended 2 weeks before, during, and 2 weeks after itraconazole treatment. See also Table 1.		
Anticonvulsants			
Phenobarbital Phenytoinª	Not recommended 2 weeks before and during itraconazole treatment.		
Carbamazepine	Not recommended 2 weeks before, during, and 2 weeks after itraconazole treatment. See also Table 1.		
Antivirals			
Efavirenz <sup>a</sup> Nevirapine <sup>a</sup>	Not recommended 2 weeks before and during itraconazole treatment.		
Gastrointestinal Drugs			
Drugs that reduce gastric acidity e.g. acid neutralizing medicines such as aluminum hydroxide, or acid secretion suppressors such as $H_2$ - receptor antagonists and proton pump inhibitors.	Use with caution. Administer acid neutralizing medicines at least 2 hours before or 2 hours after the intake of itraconazole capsules.		
Miscellaneous Drugs and Other Substances			
Lumacaftor/lvacaftor	Not recommended 2 weeks before, during, and 2 weeks after		

Lumacaftor/Ivacaftor	itraconazole treatment.		
<sup>a</sup> Based on clinical drug interaction information with itraconazole.			
Pediatric Population			

Interaction studies have only been performed in adults

Carcinogenesis, Mutagenesis, and Impairment of Fertility:

Itraconazole showed no evidence of carcinogenicity potential in mice treated orally for 23 months at dosage levels up to 80 mg/kg/day (approximately 1 time the maximum recommended human dose [MRHD] of 400 mg/day based on body surface area comparisons). Male rats treated with 25 mo/kg/day (0.6 times the MRHD based on body surface area comparisons) had a slightly increased incidence of soft tissue sarcoma. These sarcomas may have been a consequence of hypercholesterolemia, which is a response of rats, but not dogs or humans, to chronic itraconazole administration Female rats treated with 50 mg/kg/day (1.2 times the MRHD based on body surface area comparisons) had an increased incidence of squamous cell carcinoma of the lung (2/50) as compared to the untreated group. Although the occurrence of squamous cell carcinoma in the lung is extremely uncommon in untreated rats, the increase in this study was no statistically significant. Itraconazole produced no mutagenic effects when assaved in DNA repair test (unscheduled DNA synthesis) in primary rat

hepatocytes, in Ames tests with *Salmonella typhimurium* (6 strains) and *Escherichia coli*, in the mouse lymphoma gene mutation tests, in a sex-linked recessive lethal mutation (*Drosophila melanogaster*) test, in chromosome aberration tests in human lymphocytes, in a cell transformation test with C3H/10T1/2 C18 mouse embryo fibroblasts cells, in a dominant lethal mutation test in male and female mice, and in micronucleus tests in mice and rats.

Itraconazole did not affect the fertility of male or female rats treated orally with dosage levels of up to 40 mg/kg/day (1 time the MRHD based on body surface area comparisons), even though parental toxicity was present at this dosage level. More severe signs of parental toxicity, including death, were present in the next higher dosage level, 160 mg/kg/day (4 times the MRHD based on body surface area comparisons).

Pregnancy: Teratogenic Effects:

Itraconazole was found to cause a dose-related increase in maternal toxicity, embryotoxicity, and teratogenicity in rats at dosage levels of approximately 40 to 160 mg/kg/day (1 to 4 times the MRHD based on body surface area comparisons), and in mice at dosage levels of approximately 80 mg/kg/day (1 time the MRHD based on body surface area comparisons). Itraconazole has been shown to cross the placenta in a rat model. In rats, the teratogenicity consisted of major skeletal defects; in mice, it consisted of encephaloceles and/or macroglossia There are no studies in pregnant women. Itraconazole should be used for the treatment of systemic fungal infections in

pregnancy only if the benefit outweighs the potential risk. Itraconazole should not be administered for the treatment of onychomycosis to pregnant patients or to women contemplating pregnancy. Itraconazole should not be administered to women of childbearing potential for the treatmen

of onychomycosis unless they are using effective measures to prevent pregnancy and they begin therapy on the second or third day following the onset of menses. Highly effective contraception should be continued throughout itraconazole therapy and for 2 months following the end of treatment. During postmarketing experience, cases of congenital abnormalities have been reported. (See ADVERSE REACTIONS: Hypertriglyceridemia Postmarketing Experience.)

# Nursing Mothers:

Itraconazole is excreted in human milk; therefore, the expected benefits of itraconazole therapy for the mother should be weighed against the potential risk from exposure of itraconazole to the infant. The U.S. Public Health Service Centers for Disease Control and Prevention advises HIV-infected women not to breast-feed to avoid potential transmission of HIV to uninfected infants.

# Pediatric Use:

The efficacy and safety of itraconazole have not been established in pediatric patients. The long-term effects of itraconazole on bone growth in children are unknown. In three toxicology studies using rats,

irraconazole induced bone defects at dosage levels as low as 20 mg/kg/day (0.5 times the MRHD of 400 mg based on body surface area comparisons). The induced defects included reduced bone plate activity, thinning of the zona compacts of the large hones, and increased hone fragility. At a dosage level of 80 mg/kg/day (2 times the MBHD, based on body surface area comparisons) over 1 year or 160 mg/kg/day (4 times the MRHD based on body surface area comparisons) for 6 months, itraconazole induced small tooth pulp with hypocellular appearance in some rats. Geriatric Use:

Clinical studies of itraconazole capsules did not include sufficient numbers of subjects aged 65 years and over to determine whether they respond differently from younger subjects. It is advised to use itraconazole capsules in these patients only if it is determined that the potential benefit outweighs the potential risks. In general, it is recommend the dose selection for an elderly patient should be taken into consideration, reflecting the greater frequency of de hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

Transient or permanent hearing loss has been reported in elderly patients receiving treatment with itraconazole of these reports included concurrent administration of guinidine which is contraindicated (See BOXED WARNIN CONTRAINDICATIONS: Drug Interactions a PRECAUTIONS: Drug I

HIV-Infected Patients Because hypochlorbydria has been reported in HIV-infected individuals, the absorption of itraconazole in these

# may be decreased

Renal Impairment Limited data are available on the use of oral itraconazole in patients with renal impairment. The exposure of itraconazole may be lower in some patients with renal impairment. Caution should be exercised when itraconazole is administered in this patient population and dose adjustment may be needed. (See CLINICAL PHARMACOLOGY: Special Populations and

# DOSAGE AND ADMINISTRATION.) Hepatic Impairment

limited data are available on the use of oral itraconazole in natients with henatic impairment. Caution should be evercised when this drug is administered in this patient population. It is recommended that patients with impaired hepa function be carefully monitored when taking itraconazole. It is recommended that the prolonged elimination half-life of traconazole observed in the single oral dose clinical trial with traconazole capsules in cirrhotic patients be considered when deciding to initiate therapy with other medications metabolized by CYP3A4.

In patients with elevated or abnormal liver enzymes or active liver disease, or who have experienced liver toxicity with other drugs, treatment with itraconazole is strongly discouraged unless there is a serious or life-threatening situation where the expected benefit exceeds the risk. It is recommended that liver function monitoring be done in patients with pre-existing hepatic function abnormalities or those who have experienced liver toxicity with other medications. (See CLINICAL PHARMACOLOGY: Special Populations and DOSAGE AND ADMINISTRATION.)

# ADVERSE REACTIONS

Edema

Fatigue Fever

Malaise

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Itraconazole has been associated with rare cases of serious hepatotoxicity, including liver failure and death. Some of these cases had neither pre-existing liver disease nor a serious underlying medical condition. If clinical signs or symptoms develop that are consistent with liver disease, treatment should be discontinued and liver function testing performed. The risks and benefits of itraconazole use should be reassessed. (See WARNINGS: Hepatic Effects and PRECAUTIONS: Hepatotoxicity and Information for Patients.)

Adverse Events in the Treatment of Systemic Fungal Infections Adverse event data were derived from 602 patients treated for systemic fungal disease in U.S. clinical trials who were immunocompromised or receiving multiple concomtant medications. Treatment was discontinued in 10.5% of patients due to adverse events. The median duration before discontinuation of therapy was 81 days (range: 2 to 776 days). The

# table lists adverse events reported by at least 1% of patients. Table 3: Clinical Trials of Systemic Fungal Infections: Adverse Events Occurring with an

Incidence of Greater than or Equal to 1%		
Body System/Adverse Event	Incidence (%) (N=602)	
Gastrointestinal		
Nausea	11	
Vomiting	5	
Diarrhea	3	
Abdominal Pain	2	
Anorexia	1	
Body as a Whole		

<b>Skin and Appendages</b> Rash* Pruritus	93
Central/Peripheral Nervous System Headache Dizziness	4 2
Psychiatric Libido Decreased Somnolence	1
Cardiovascular Hypertension	3
Metabolic/Nutritional Hypokalemia	2
Urinary System Albuminuria	1
Liver and Biliary System Hepatic Function Abnormal	3
Reproductive System, Male	

\* Rash tends to occur more frequently in immunocompromised patients receiving immunosuppressive medications. Adverse events infrequently reported in all studies included constipation, gastritis, depression, insomnia, tinnitus, menstrual disorder, adrenal insufficiency, gynecomastia, and male breast pain.

Impotence

Adverse Events Reported in Toenail Onychomycosis Clinical Trials Patients in these trials were on a continuous dosing regimen of 200 mg once daily for 12 consecutive weeks. The following adverse events led to temporary or permanent discontinuation of therapy.

Table 4: Clinical Trials of Onychomycosis of the Toenail: Adverse Events Leading to Temporary or Permanent Discontinuation of Therapy

Adverse Event	Incidence (%) Itraconazole (N=112)
Elevated Liver Enzymes (greater than twice the upper limit of normal)	4
Gastrointestinal Disorders	4
Rash	3
Hypertension	2
Orthostatic Hypotension	1
Headache	1
Malaise	1
Myalgia	1
Vasculitis	1
Vertigo	1

The following adverse events occurred with an incidence of greater than or equal to 1% (N=112): headache: 10% hindits: %; upper respiratory tract infection. 8%; sinusitis, injury: 7%; diarrhea, dyspepsia, flatulence, abdominal pain dizziness, rash: 4%; cystitis, urinary tract infection, liver function abnormality, myalgia, nausea: 3%; appetite increased constipation, gastritis, gastroenteritis, pharyngitis, asthenia, fever, pain, tremor, herpes zoster, abnormal dreaming: 2%

Adverse Events Reported in Fingernail Onychomycosis Clinical Trials Patients in these trials were on a dosing regimen consisting of two 1-week treatment periods of 200 mg twice daily, separated by a 3-week period without drug.

The following adverse events led to temporary or permanent discontinuation of therapy. Table 5: Clinical Trials of Onvchomycosis of the Fingernail: Adverse Events Leading to Temporary or Permanent

Discontinuation of Therapy			
Adverse Event	Incidence (%) Itraconazole (N=37)		
Rash/Pruritus	3		
The entrie has a determined	0		

The following adverse events occurred with an incidence of greate	er than or equal to 1% (N=37): headache: 8%; pruritu
nausea, rhinitis: 5%; rash, bursitis, anxiety, depression, constipa	tion, abdominal pain, dyspepsia, ulcerative stomatiti
gingivitis, hypertriglyceridemia, sinusitis, fatigue, malaise, pain, i	njury: 3%.

Adverse Events Reported from Other Clinical Trials In addition, the following adverse drug reaction was reported in patients who participated in itraconazole capsules clinical trials: *Hepatobiliary Disorders:* hyperbilirubinemia.

The following is a list of additional adverse drug reactions associated with itraconazole that have been reported in clinical

rials of itraconazole oral solution and itraconazole IV excluding the adverse reaction term "Injection site inflammation" which is specific to the injection route of administration:

Cardiac Disorders: cardiac failure, left ventricular failure, tachycardia;

General Disorders and Administration Site Conditions: face edema, chest pain, chills; Hepatobiliary Disorders: hepatic failure, jaundice;

Investigations: alanine aminotransferase increased, aspartate aminotransferase increased, blood alkaline phosphatase increased, blood lactate dehvdrogenase increased, blood urea increased, gamma-glutamyltransferase increased, urine

analysis abnormal:

raconazole (all formulations) ation of uncertain size, reliably estimating their frequency or establishing a causal relationship to drug exposure is not always possible.

Blood and Lymphatic System Disorders:	Leukopenia, neutropenia, thrombocytopenia
Immune System Disorders:	Anaphylaxis; anaphylactic, anaphylactoid and allergic reactions; serum sickness; angioneurotic edema
Endocrine Disorders:	Pseudoaldosteronism
Nervous System Disorders:	Peripheral neuropathy, paresthesia, hypoesthesia, tremor
Eye Disorders:	Visual disturbances, including vision blurred and diplopia
Ear and Labyrinth Disorders:	Transient or permanent hearing loss
Cardiac Disorders:	Congestive heart failure, bradycardia
Respiratory, Thoracic and Mediastinal Disorders:	Pulmonary edema, dyspnea
Gastrointestinal Disorders:	Pancreatitis, dysgeusia
Hepatobiliary Disorders:	Serious hepatotoxicity (including some cases of fatal acute liver failure), hepatitis
Skin and Subcutaneous Tissue Disorders:	Toxic epidermal necrolysis, Stevens-Johnson syndrome, acute generalized exanthematous pustulosis, erythema multiforme, exfoliative dermatitis, leukocytoclastic vasculitis, alopecia, photosensitivity, urticaria
Musculoskeletal and Connective Tissue Disorders:	Arthralgia
Renal and Urinary Disorders:	Urinary incontinence, pollakiuria
Reproductive System and Breast Disorders:	Erectile dysfunction
General Disorders and Administration Site Conditions:	Peripheral edema
Investigations:	Blood creatine phosphokinase increased

There is limited information on the use of itraconazole during pregnancy. Cases of congenital abnormalities including skeletal, genitourinary tract, cardiovascular and ophthalmic malformations as well as chromosomal and multiple malformations have been reported during postmarketing experience. A causal relationship with itraconazole has not been established. (See CLINICAL PHARMACOLOGY: Special Populations, CONTRAINDICATIONS, WARNINGS, and PRECAUTIONS: Drug Interactions for more information.) OVERDOSAGE

Itraconazole is not removed by dialysis. In the event of accidental overdosage, supportive measures should be employed. Contact a certified poison control center for the most up to date information on the management of itraconazole capsules overdosage (1-800-222-1222 or www.poison.org).

In general, adverse events reported with overdose have been consistent with adverse drug reactions already listed in this package insert for itraconazole. (See ADVERSE REACTIONS.) DOSAGE AND ADMINISTRATION

Itraconazole capsules should be taken with a full meal to ensure maximal absorption. Itraconazole capsules must be swallowed whole.

Itraconazole capsules are a different preparation than itraconazole oral solution and should not be us Treatment of Blastomycosis and Histoplasmosis: he recommended dose is 200 mg once daily (2 capsules). If there is no obvious improvement, or progressive fungal disease, the dose should be increased in 100-mg increments to a maximum of above 200 mg/day should be given in two divided doses.

Treatment of Aspergillosis: A daily dose of 200 to 400 mg is recommended

Treatment in Life-Threatening Situations:

In life-threatening situations, a loading dose should be used. Although clinical studies did not provide for a loading dose, it is recommended, based on pharmac

loading dose of 200 mg (2 capsules) three times daily (600 mg/day) be given for the first 3 days of Freatment should be continued for a minimum of three months and until clinical parameters and labor that the active fungal infection has subsided. An inadequate period of treatment may lead to recurrent Itraconazole capsules and itraconazole oral solution should not be used interchangeably. Only the ora

demonstrated effective for oral and/or esophageal candidiasis. Treatment of Onychomycosis: Toenails with or without fingernail involvement: The recommended dose is 200 mg (2 capsules)

consecutive weeks Treatment of Onychomycosis:

### ingernails only: The recommended dosing regimen is 2 treatment courses, each consisting of 200 m (400 mg/day) for 1 week. The courses are separated by a 3-week period without itraconazole capsu

Use in Patients with Renal Impairment: Limited data are available on the use of oral itraconazole in patients with renal impairment. Caution hen this drug is administered in this patient population. (See CLINICAL PHARMACOLOGY: Spe PRECAUTIONS.)

# Use in Patients with Hepatic Impairment:

Limited data are available on the use of oral itraconazole in patients with hepatic impairment. Caution when this drug is administered in this patient population (See CLINICAL PHARMACOLOGY)

WARNINGS, and PRECAUTIONS.)

HOW SUPPLIED Itraconazole capsules USP are available containing 100 mg of itraconazole USP, size "0" hard gelati opaque cap and pink transparent body, imprinted as "100" on the body and "1463" on the cap with t white to off-whit

white to on-white penets.		
	Bottles of 30	NDC 13668-463-30
	Bottles of 90	NDC 13668-463-90
	Bottles of 500	NDC 13668-463-05
	Store at 20° to 25°C (68° to 77°F); excursions permitted	d between 15°C and 30°C (59°F and 86°F)

Room Temperature] Protect from light and moisture

# PATIENT INFORMATION

Itraconazole (it" ra kon' a zole) Capsules USP

Read this Patient Information that comes with itraconazol before you start taking it and each time you get a refill. The new information. This information does not take the place with your healthcare provider about your medical condition treatment.

# What is the most important information I should kn itraconazole capsules? Itraconazole capsules can caus side effects, including:

**1. Heart failure.** Do not take itraconazole capsules if you heart failure, including congestive heart failure. Stop taking itraconazole capsules and call your

provider right away if you have any of these syn congestive heart failure: shortness of breath coughing up white

- swelling of your feet, ankles fast heartbeat
- or legs
- waking up at night sudden weight gain normal for you

mucus (phlegm)

increased tiredness

2. Heart problems and other serious medical problem medical problems that affect the heart and other parts of can happen if you take itraconazole capsules with ce medicines. Do not take itraconazole capsules if you als following medicines:

- methadone irinotecan nalo • disopyramide Iurasidone • lom dofetilide oral midazolam lova • dronedarone • pimozide • sim guinidine triazolam • ava felodipine • tica isavuconazole nisoldipine ven
- ergot alkaloids (such as dihydroergotamine, ivabradine ergometrine ergonovine) • ranolazine • ergotamine eplerenone
- methylergometrine cisapride (methylergonovine)

**Do not** take itraconazole with venetoclax for chronic ly leukemia/small lymphocytic lymphoma when you first start with venetoclax or with increasing doses of venetoclax.

This is not a complete list of medicines that can int itraconazole capsules. Itraconazole capsules may affect the medicines work, and other medicines may affect how it capsules work. You can ask your pharmacist for a list of medicines that interact with itraconazole capsules.

nded that	Metabolism and Nutrition Disorders: hyperglycemia, hyperkalemia, hypomagnesemia;
lecreased	Psychiatric Disorders: confusional state;
	Renal and Urinary Disorders: renal impairment;
e. Several NG: Drug	Respiratory, Thoracic and Mediastinal Disorders: dysphonia, cough;
NG. Drug	Skin and Subcutaneous Tissue Disorders: rash erythematous, hyperhidrosis;
	Vascular Disorders: hypotension
e patients	Postmarketing Experience Adverse drug reactions that have been first identified during postmarketing experience with itra- are listed in the table below. Because these reactions are reported voluntarily from a population

These details can be moved by printed to arrange pharma code/ Bar code and adjacent text visible on folded leaflet.

permanently in some people who take itraconazole capsules. Stop

d not be used interchangeably.		
vement, or there is evidence of ximum of 400 mg daily. Doses	Before you start taking itraconazole capsules, tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Before you start any new medicine, ask your healthcare provider or pharmacist if it is safe to take it with itraconazole capsules.	<ul> <li>taking itraconazole capsules and call your healthcare provider right away if you have any changes in your hearing.</li> <li>The most common side effects of itraconazole capsules include: headache, rash, digestive system problems (such as nausea and vomiting), and edema.</li> </ul>
n pharmacokinetic data, that a 3 days of treatment. rs and laboratory tests indicate precurrence of active infection. Only the oral solution has been	<ul> <li>3. Liver problems. Itraconazole capsules can cause serious liver problems which may be severe and lead to death. Stop taking itraconazole capsules and call your healthcare provider right away if you have any of these symptoms of liver problems:</li> <li>tiredness</li> </ul>	Additional possible side effects include upset stomach, constipation, fever, inflammation of the pancreas, increase in blood pressure, menstrual disorder, erectile dysfunction, dizziness, muscle pain, painful joints, unpleasant taste, or hair loss. These are not all the possible side effects of itraconazole capsules.
2 capsules) once daily for 12	<ul> <li>your skin or the white part of your eyes turn yellow (jaundice)</li> <li>loss of appetite for several days or longer</li> <li>nausea or vomiting</li> </ul>	Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.
g of 200 mg (2 capsules) b.i.d. zole capsules. t. Caution should be exercised OGY: Special Populations and	<ul><li>light-colored stools (bowel movement)</li><li>dark or "tea-colored" urine</li></ul>	<ul> <li>How should I store itraconazole capsules?</li> <li>Store itraconazole capsules at room temperature between 59°F and 77°F (45°0 and 95°0)</li> </ul>
nt. Caution should be exercised	For more information about side effects, see "What are the possible side effects of itraconazole capsules?"	<ul> <li>77°F (15°C and 25°C).</li> <li>Keep itraconazole capsules dry and away from light.</li> <li>Keep itraconazole capsules and all medicines out of the reach of</li> </ul>
hard gelatin capsule with blue cap with black ink, containing	<ul> <li>What are itraconazole capsules?</li> <li>Itraconazole capsules are a prescription medicine used to treat the following fungal infections of the toenails, fingernails and other parts of the body: blastomycosis, histoplasmosis, aspergillosis, and onychomycosis.</li> </ul>	children.General information about the safe and effective use of itraconazole capsules.Medicines are sometimes prescribed for purposes other than those
and 86°F) [See USP Controlled	<ul> <li>It is not known if itraconazole capsules are safe and effective in children.</li> </ul>	listed in a Patient Information leaflet. Do not use itraconazole capsules for a condition for which it was not prescribed. Do not give itraconazole capsules to other people, even if they have the same symptoms that
	<ul> <li>Do not take itraconazole capsules if you:</li> <li>have or have had heart failure, including congestive heart failure.</li> <li>take certain medicines. See "What is the most important</li> </ul>	you have. It may harm them. You can ask your doctor or pharmacist for information about itraconazole capsules that is written for health professionals.
	<ul> <li>information I should know about itraconazole capsules?"</li> <li>are pregnant or plan to become pregnant. Itraconazole capsules can harm your unborn baby. Tell your healthcare provider right away if you become pregnant while taking itraconazole capsules. Females</li> </ul>	What are the ingredients in itraconazole capsules? Active ingredients: itraconazole USP Inactive ingredients: hard gelatin capsule, hypromellose, polyethylene glycol, sugar spheres & talc. In addition, the blue opaque capsule shell
s USP	who are able to become pregnant must use effective forms of birth control during treatment and for 2 months after stopping treatment with itraconazole capsules.	contains FD&C Blue No. 1, FD&C Blue No. 2, gelatin & titanium dioxide and the pink transparent body contains D&C Red No. 28 & gelatin. The imprinting ink contains black iron oxide, potassium hydroxide,
onazole capsules fill. There may be e place of talking	• are allergic to itraconazole or any of the ingredients in itraconazole capsules. See the end of this Patient Information leaflet for a complete list of ingredients in itraconazole capsules.	propylene glycol and shellac. For more information or call Torrent Pharma Inc. at 1-800-912-9561.
condition or your	Before taking itraconazole capsules, tell your healthcare provider about all of your medical conditions, including if you: • have heart problems.	Dispense with Patient Information available at: <a href="https://torrentpharma.com/pi/usa/products/">https://torrentpharma.com/pi/usa/products/</a>
uld know about n cause serious	<ul><li> have liver problems.</li><li> have kidney problems.</li></ul>	
s if you have had <b>your healthcare</b>	<ul> <li>have a weakened immune system (immunocompromised).</li> <li>have lung problems including cystic fibrosis.</li> <li>are breastfeeding or plan to breastfeed. Itraconazole can pass into</li> </ul>	Manufactured by: Torrent Pharmaceuticals LTD., India. Manufactured for:
se symptoms of white or pink	your breast milk. You and your healthcare provider should decide if you will take itraconazole capsules or breastfeed. Taking itraconazole capsules with certain medicines may affect each	Torrent Pharma INC., Basking Ridge, NJ 07920. 8099645 Revised: January 2025
gm) t	other. Taking itraconazole capsules with other medicines can cause serious side effects.	This Patient Information has been approved by the U.S. Food and Drug Administration
night more than Du	<ul> <li>How should I take itraconazole capsules?</li> <li>Take itraconazole capsules exactly as prescribed by your healthcare provider. Your healthcare provider will tell you how much itraconazole capsules to take and when to take it.</li> </ul>	
<b>oblems.</b> Serious arts of your body vith certain other <b>you also take the</b>	<ul> <li>You will receive itraconazole capsules in a bottle pack. Your healthcare provider will decide the type of itraconazole capsules that is right for you.</li> <li>Take itraconazole capsules with a full meal.</li> <li>Swallow itraconazole capsules whole.</li> </ul>	
<ul><li>naloxegol</li><li>lomitapide</li><li>lovastatin</li></ul>	<ul> <li>You should not take itraconazole oral solution instead of itraconazole capsules, because they will not work the same way.</li> <li>If you take too much itraconazole capsules, call your healthcare provider or go to the nearest hospital emergency room right away.</li> </ul>	
<ul> <li>simvastatin</li> <li>avanafil</li> <li>ticagrelor</li> <li>venetoclax (see below)</li> </ul>	What should I avoid while taking itraconazole capsules? Itraconazole capsules can cause dizziness and vision problems. Do not drive or operate machinery until you know how itraconazole capsules affect you.	
<ul><li>finerenone</li><li>voclosporin</li></ul>	<ul> <li>What are the possible side effects of itraconazole capsules?</li> <li>Itraconazole capsules may cause serious side effects, including:</li> <li>See "What is the most important information I should know about itraconazole capsules?"</li> </ul>	
onic lymphocytic st start treatment ax. an interact with ect the way other	<ul> <li>New or worsening high blood pressure and low potassium levels in your blood (pseudoaldosteronism). Your healthcare provider should check your blood pressure and potassium levels.</li> <li>Nerve problems (neuropathy). Call your healthcare provider right away if you have tingling or numbness in your hands or feet. Your healthcare provider may stop your treatment with itraconazole</li> </ul>	
how itraconazole	<ul> <li>capsules if you have nerve problems.</li> <li>Hearing loss. Hearing loss can happen for a short time or</li> </ul>	