

Voritec

Voriconazole USP



Composition

Voritec 50 Tablet: Each film coated tablet contains Voriconazole USP 50 mg.

Voritec 200 Tablet: Each film coated tablet contains Voriconazole USP 200 mg.

Pharmacology

Voriconazole is a triazole antifungal drug. It inhibits the fungal cytochrome P-450 mediated 14 alpha-lanosterol demethylation, an essential step in fungal ergosterol biosynthesis. The accumulation of 14 alpha-methyl sterols correlate with the subsequent loss of ergosterol in the fungal cell wall and may be responsible for the antifungal activity of voriconazole.

Indications

Voritec is indicated for the treatment of adults and pediatric patients 2 years of age and older with:

- * Invasive aspergillosis
- * Candidemia in non-neutropenics and other deep tissue Candida infections
- * Esophageal candidiasis
- * Serious fungal infections caused by *Scedosporium apiospermum* and *Fusarium* species including *Fusarium solani*, in patients intolerant of, or refractory to, other therapy.

Dosage & Administration

Voritec tablets or oral suspension to be taken at least one hour before or after a meal.

Dosage in adults

Infection	Dose	
	Loading (Day-1)	Maintenance (From Day-2)
Invasive Aspergillosis	400 mg every 12 hours	200 mg every 12 hours for 11 weeks
Serious Fungal infections like <i>Scedosporiosis</i> and <i>Fusariosis</i>		200 mg every 12 hours for at least 14 days after resolution of symptoms
Candidemia (non-neutropenic) and other deep tissue Candida infections		
Esophageal Candidiasis	200 mg every 12 hours for a minimum 14 days and for at least 7 days after the resolution of signs & symptoms	

* Patients who weigh less than 40 kg should receive half of the adult dose

Dosage in children 2 years of age and older

Infection	Dose	
	Loading (Day-1)	Maintenance (From Day-2)
Invasive Aspergillosis	9 mg/kg every 12 hours	9 mg/kg every 12 hours for 6 weeks to 12 weeks
Serious Fungal infections like <i>Scedosporiosis</i> and <i>Fusariosis</i>		9 mg/kg every 12 hours for at least 14 days after resolution of symptoms
Candidemia (non-neutropenic) and other deep tissue Candida infections		
Esophageal Candidiasis	9 mg/kg every 12 hours for a minimum 14 days and for at least 7 days after the resolution of sign & symptoms (maximum 42 days)	

* Children aged above 12 years weighing > 50 kg should use adult dosage.

Contraindications

- Hypersensitivity to voriconazole or its excipients.
- Coadministration with cisapride, pimozide or quinidine, sirolimus due to risk of serious adverse reactions.
- Coadministration with rifampin, carbamazepine, long-acting barbiturates, efavirenz, ritonavir, rifabutin, ergot alkaloids and St. John's Wort due to risk of loss of efficacy

Side effects

The most common side effects may include visual disturbances, fever, nausea, rash, vomiting, chills, headache, liver function test abnormal, tachycardia, hallucinations, pyrexia, epistaxis, abdominal pain, diarrhea, hypokalemia, cough, thrombocytopenia, peripheral edema, hyperglycemia, dyspnea, hypocalcemia, hypophosphatemia, LFT abnormal, mucosal inflammation, photophobia, abdominal distention, constipation, dizziness, hemoptysis, hypoalbuminemia, hypomagnesemia, renal impairment, upper respiratory tract infection etc.

Warning & Precautions

- **Hepatic Toxicity:** Serious hepatic reactions reported. Evaluate liver function tests at start of and during Voriconazole therapy.
- **Arrhythmias and QT Prolongation:** Correct potassium, magnesium and calcium level prior to use; caution patients with proarrhythmic conditions.
- **Visual Disturbances (including optic neuritis and papilledema):** Monitor visual function if treatment continues beyond 28 days.
- **Photosensitivity:** Avoid sunlight due to risk of photosensitivity.
- **Patients with Hereditary Galactose Intolerance, Lapp Lactase Deficiency or Glucose-Galactose**
- **Long-term treatment:** Long term exposure (treatment or prophylaxis) greater than 180 days (6 months) requires careful assessment of the benefit-risk balance and physicians should therefore consider the need to limit the exposure to voriconazole.
- **Malabsorption:** Voriconazole tablets should not be given to these patients because it contains lactose.

Use in special groups

Pregnancy: Voriconazole can cause fetal harm when administered to a pregnant woman. There are no available data on the use of Voriconazole in pregnant women.

Lactation: No data are available regarding the presence of Voriconazole in human milk, the effects of Voriconazole on the breastfed infant, or the effects on milk production.

Pediatrics: Safety and effectiveness in patients younger than 2 years has not been established.

Geriatric Use: Overall safety profile of the elderly patients is similar to that of the young so no dosage adjustment is recommended.

Hepatic Impairment: Use half the maintenance dose in adult patients with mild to moderate hepatic impairment (Child-Pugh Class A and B).

Renal Impairment: No dose adjustment is necessary for oral dosing in patients with mild to severe renal impairment

Drug interaction

CYP3A4, CYP2C9, and CYP2C19 inhibitors and inducers: Adjust voriconazole dosage and monitor for adverse reactions or lack of efficacy.

Voriconazole may increase the concentrations and activity of drugs that are CYP3A4, CYP2C9 and CYP2C19 substrates. Reduce dosage of these other drugs and monitor for adverse reactions.

Phenytoin or Efavirenz: with co-administration, increase maintenance oral and intravenous dosage of voriconazole.

Overdose

Pediatric patients who received up to five times the recommended dose of voriconazole, a single adverse event of photophobia of 10 minutes duration was reported. There is no known antidote to voriconazole. Voriconazole is hemodialyzed with clearance of 121 mL/min may assist in the removal of voriconazole from the body.

Storage

Do not store above 30°C. Protect from light. Keep out of the reach of children.

Packing

Voritec 50 Tablet: Each box contains 1x10's tablets in blister pack.

Voritec 200 Tablet: Each box contains 1x10's tablets in blister pack.

Manufactured by



Ziska Pharmaceuticals Ltd.

Kaliakoir, Gazipur, Bangladesh