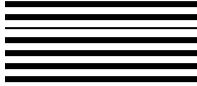




8175-2623-01-01



PIRfenidone Tablets

2102367

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use PIRFENIDONE TABLETS safely and effectively. See full prescribing information for PIRFENIDONE TABLETS.

PIRfenidone film-coated tablets, for oral use
Initial U.S. Approval: 2014

RECENT MAJOR CHANGES table with columns for Date, Description, and Effective Date.

INDICATIONS AND USAGE

PIRfenidone tablets are a pyridone indicated for the treatment of idiopathic pulmonary fibrosis (IPF). (1)

DOSAGE AND ADMINISTRATION

- Take with food.
Recommended dosage: 801 mg three times daily (2,403 mg/day). (2)
Upon initiation of treatment, titrate to the full dosage of 2,403 mg/day over a 14-day period as follows:

Table with columns: Treatment days, Dosage. Rows show progression from 267 mg to 801 mg.

- Consider temporary dosage reduction, treatment interruption, or discontinuation for management of adverse reactions. (2, 3, 5, 1, 5, 2, 5, 3, 5, 4)
Prior to treatment, conduct liver function tests. (2, 1)

DOSAGE FORMS AND STRENGTHS

- Tablets: 267 mg and 801 mg (3)

CONTRAINDICATIONS

None

WARNINGS AND PRECAUTIONS

- Elevated liver enzymes and drug-induced liver injury: ALT, AST, and bilirubin elevations have occurred with pifredione including cases of drug-induced liver injury. In the postmarketing setting, non-serious and serious cases of drug-induced liver injury, including severe liver injury with fatal outcomes, have been reported. Monitor ALT, AST, and bilirubin before and during treatment. Temporary dosage reductions or discontinuations may be required. (2, 1, 5, 1)

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE
2 DOSAGE AND ADMINISTRATION
3 DOSAGE FORMS AND STRENGTHS
4 CONTRAINDICATIONS
5 WARNINGS AND PRECAUTIONS
6 ADVERSE REACTIONS
7 DRUG INTERACTIONS

- Photosensitivity and rash: Photosensitivity and rash have been noted with pifredione. Avoid exposure to sunlight and sunlamps. Wear sunscreen and protective clothing daily. Temporary dosage reductions or discontinuations may be required. (5, 2)
Severe Cutaneous Adverse Reactions (SCAR): Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), and drug reactions with eosinophilia and systemic symptoms (DRESS) have been reported in association with the use of pifredione in the postmarketing setting. Interrupt pifredione in case of signs or symptoms of SCAR. Permanently discontinue pifredione if a SCAR is confirmed. (5, 3)
Gastrointestinal disorders: Nausea, vomiting, diarrhea, dyspepsia, gastro-esophageal reflux disease, and abdominal pain have occurred with pifredione. Temporary dosage reductions or discontinuations may be required. (5, 4)

ADVERSE REACTIONS
The most common adverse reactions (≥ 10%) are nausea, rash, abdominal pain, upper respiratory tract infection, diarrhea, fatigue, headache, decreased appetite, dyspepsia, dizziness, vomiting, gastro-esophageal reflux disease, sinusitis, insomnia, weight decreased, and arthralgia. (6, 1)

To report SUSPECTED ADVERSE REACTIONS, contact Annora Pharma Private Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS
Moderate (e.g., ciprofloxacin) and strong inhibitors of CYP1A2 (e.g., fluvoxamine) increase systemic exposure of pifredione tablets and may alter the adverse reaction profile of pifredione. Discontinue fluvoxamine prior to administration of pifredione or reduce to 267 mg three times a day. Consider dosage reduction with use of ciprofloxacin. (7, 1)

USE IN SPECIFIC POPULATIONS
Hepatic Impairment: Monitor for adverse reactions and consider dosage modification or discontinuation of pifredione as needed. Pifredione is not recommended for use in patients with severe hepatic impairment. (8, 6, 12, 3)
Renal Impairment: Monitor for adverse reactions and consider dosage modification or discontinuation of pifredione as needed. Pifredione is not recommended for use in patients with end stage renal disease on dialysis. (8, 7, 12, 3)
Smokers: Decreased exposure has been noted in smokers which may alter the efficacy profile of pifredione. (8, 8)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.
Revised: 04/2023

8 USE IN SPECIFIC POPULATIONS
8.1 Pregnancy
8.2 Lactation
8.4 Pediatric Use
8.5 Geriatric Use
8.6 Hepatic Impairment
8.7 Renal Impairment
8.8 Smokers
10 OVERDOSAGE
11 DESCRIPTION
12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
12.2 Pharmacodynamics
12.3 Pharmacokinetics
13 NONCLINICAL TOXICOLOGY
13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
14 CLINICAL STUDIES
16 HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION
*Sections or subsections omitted from the full prescribing information are not listed

At the recommended dosage of 2,403 mg/day, 14.6% of patients on pifredione compared to 9.6% on placebo permanently discontinued treatment because of an adverse event. The most common (> 1%) adverse reactions leading to discontinuation were rash and nausea. The most common (> 3%) adverse reactions leading to dosage reduction or interruption were rash, nausea, diarrhea, and photosensitivity reaction.

Table 2. Adverse Reactions Occurring in ≥ 10% of Pifredione-Treated Patients and More Commonly Than Placebo in Studies 1, 2, and 3

Table with columns: Adverse Reaction, % of Patients (0 to 118 Weeks) for Pifredione 2,403 mg/day (N = 623) and Placebo (N = 624). Rows include Nausea, Rash, Abdominal Pain, etc.

*Includes abdominal pain, upper abdominal pain, abdominal distention, and stomach discomfort.

Adverse reactions occurring in ≥ 5 to < 10% of pifredione-treated patients and more commonly than placebo are photosensitivity reaction (9% vs. 1%), pruritus (8% vs. 5%), asthma (6% vs. 4%), dysgeusia (6% vs. 2%), and non-cardiac chest pain (5% vs. 4%).

6.2 Postmarketing Experience
In addition to adverse reactions identified from clinical trials the following adverse reactions have been identified during post-approval use of pifredione. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency.

Blood and Lymphatic System Disorders: Agranulocytosis
Hepatobiliary Disorders: Drug-induced liver injury
Immune System Disorders: Angioedema
Skin and Subcutaneous Tissue Disorders: Severe Cutaneous Adverse Reactions (SCAR)

7 DRUG INTERACTIONS
7.1 CYP1A2 Inhibitors
Pifredione is metabolized primarily (70 to 80%) via CYP1A2 with minor contributions from other CYP isoenzymes including CYP2C9, 2C19, 2D6 and 2E1.

Strong CYP1A2 Inhibitors
The concomitant administration of pifredione and fluvoxamine or other strong CYP1A2 inhibitors (e.g., enoxacin) is not recommended because it significantly increases exposure to pifredione.
Moderate CYP1A2 Inhibitors
Use of fluvoxamine or other strong CYP1A2 inhibitors should be discontinued prior to administration of pifredione and avoided during pifredione tablets treatment. In the event that fluvoxamine or other strong CYP1A2 inhibitors are the only drug of choice, dosage reductions are recommended. Monitor for adverse reactions and consider discontinuation of pifredione as needed.

Moderate CYP1A2 Inhibitors
Concomitant administration of pifredione and ciprofloxacin (a moderate inhibitor of CYP1A2) moderately increases exposure to pifredione.
Strong CYP1A2 Inhibitors
Agents or combinations of agents that are moderate or strong inhibitors of both CYP1A2 and one or more other CYP isoenzymes involved in the metabolism of pifredione (i.e., CYP2C9, 2C19, 2D6, and 2E1) should be discontinued prior to and avoided during pifredione treatment.

7.2 CYP1A2 Inducers
The concomitant use of pifredione and a CYP1A2 inducer may decrease the exposure of pifredione and this may lead to loss of efficacy. Therefore, discontinuation of strong CYP1A2 inducers prior to pifredione treatment and avoid the concomitant use of pifredione and a strong CYP1A2 inducer.
Concomitant CYP1A2 and other CYP Inhibitors
Agents or combinations of agents that are moderate or strong inhibitors of both CYP1A2 and one or more other CYP isoenzymes involved in the metabolism of pifredione (i.e., CYP2C9, 2C19, 2D6, and 2E1) should be discontinued prior to and avoided during pifredione treatment.

8 USE IN SPECIFIC POPULATIONS
8.1 Pregnancy
Risk Summary
The data with pifredione use in pregnant women are insufficient to inform on drug associated risks for major birth defects and miscarriage. In animal reproduction studies, pifredione was not teratogenic in rats and rabbits at oral doses up to 3 and 2 times, respectively, the maximum recommended daily dose (MRDD) in adults.

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 1 to 4% and 15 to 20%, respectively.

Data
Animal Data
Animal reproductive studies were conducted in rats and rabbits. In a combined fertility and embryofetal development study, female rats received pifredione at oral doses of 0, 50, 150, 450, and 1,000 mg/kg/day from 2 weeks prior to mating, during the mating phase, and throughout the periods of early embryonic development from gestation days (GD) 0 to 5 and organogenesis from GD 8 to 17. In an embryofetal development study, pregnant rabbits received pifredione at oral doses of 0, 30, 100, and 300 mg/kg/day throughout the period of organogenesis from GD 6 to 18. In these studies, pifredione at doses up to 3 and 2 times, respectively, the maximum recommended daily dose (MRDD) in adults (on mg/m² basis at maternal oral doses up to 1,000 mg/kg/day in rats and 300 mg/kg/day in rabbits, respectively) revealed no evidence of impaired fertility or harm to the fetus due to pifredione. In the presence of maternal toxicity, acyclic/irregular cycles (e.g., prolonged estrous cycle) were seen in rats at doses approximately equal to and higher than the MRDD in adults (on a mg/m² basis at maternal doses of 450 mg/kg/day and higher). In a pre- and post-natal development study, female rats received pifredione at oral doses of 0, 100, 300, and 1,000 mg/kg/day from GD 7 to lactation day 20. Prolongation of the gestation period, decreased numbers of live newborns, and reduced pup viability and body weights were seen in rats at an oral dosage approximately 3 times the MRDD in adults (on a mg/m² basis at a maternal oral dose of 1,000 mg/kg/day).

8.2 Lactation
Risk Summary
No information is available on the presence of pifredione in human milk, the effects of the drug on the breastfed infant, or the effects of the drug on milk production. The lack of clinical data during lactation precludes clear determination of the risk of pifredione to an infant during lactation; therefore, the developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for pifredione and the potential adverse effects on the breastfed child from pifredione or from the underlying maternal condition.

8.4 Pediatric Use
Safety and effectiveness of pifredione in pediatric patients have not been established.

8.5 Geriatric Use
Of the total number of subjects in the clinical studies receiving pifredione, 714 (67%) were 65 years old

Patient Information
Pifredione (pir fen' i done) tablets
What are pifredione tablets?
Pifredione tablets are a prescription medicine used to treat people with a lung disease called idiopathic pulmonary fibrosis (IPF).
It is not known if pifredione tablets are safe and effective in children.

Before you take pifredione tablets, tell your doctor about all of your medical conditions, including if you:
have liver problems
have kidney problems
are a smoker
are pregnant or plan to become pregnant. It is not known if pifredione tablets will harm your unborn baby.
are breastfeeding or plan to breastfeed. It is not known if pifredione tablets passes into your breast milk. You and your doctor should decide if you will take pifredione tablets.

Tell your doctor about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How should I take pifredione tablets?
Take pifredione tablets exactly as your doctor tells you to take them.
Your doctor may change your dose of pifredione tablets as needed.
Take pifredione tablets with food at the same time each day. This may help to decrease your nausea and dizziness.
Pifredione Tablets 267 mg are supplied as a white tablet. If you have been prescribed pifredione tablets 267 mg, take them as follows:
Take 1 pifredione 267 mg tablet 3 times each day for days 1 through 7.
Take 2 pifredione 267 mg tablet 3 times each day for days 8 through 14.
Take 3 pifredione 267 mg tablet 3 times each day on day 15 and each day after.

Pifredione Tablets 267 mg Dosing Schedule table with columns: Week, Morning (Breakfast), Afternoon (Lunch), Evening (Dinner), Total Pills Each Day.

If you have been prescribed the red 801 mg pifredione film-coated tablets, take it as follows:
Take 1 red 801 mg pifredione tablet 3 times each day.

Pifredione Tablets 801 mg Dosing Schedule table with columns: Week, Morning (Breakfast), Afternoon (Lunch), Evening (Dinner), Total Pills Each Day.

If you miss 14 days or more of pifredione tablets call your doctor right away for further instructions about how to take your medicine.
Do not take 2 doses at the same time to make up for your missed dose.
Do not take more than 3 doses each day.
If you take too much pifredione tablets, call your doctor or go to the nearest hospital emergency room right away.
Your doctor should do certain blood tests before you start taking pifredione tablets.

What should I avoid while taking pifredione tablets?
Avoid sunlight. Pifredione tablets can make your skin sensitive to the sun and the light from sunlamps and tanning beds. You could get a severe sunburn. Use sunscreen (SPF 50) and wear a hat and clothes that cover your skin if you have to be in sunlight. Talk to your doctor if you get sunburn or a rash.
Avoid taking pifredione tablets with other medicines that can make your skin sensitive to the sun, the light from sunlamps and tanning beds.
Avoid smoking. Smoking may affect how well pifredione tablets work.

What are the possible side effects of pifredione tablets?
Pifredione tablets may cause serious side effects, including:
liver problems. Call your doctor right away if you have unexplained symptoms such as yellowing of your skin or the white part of your eyes (jaundice), dark or brown (tea colored) urine, pain on the upper right side of your stomach area (abdomen), bleeding or bruising more easily than normal, feeling tired.
Your doctor will do blood tests to check how your liver is working during your treatment with pifredione tablets.
sensitivity to sunlight (photosensitivity) and rash. See "What should I avoid while taking pifredione tablets?"
severe skin reactions. Call your doctor right away if you have a severe skin reaction such as skin blisters, rash, sores in the mouth, hives or any other severe skin symptoms. Your doctor may stop your treatment with pifredione tablets.
stomach problems. Pifredione tablets may cause

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