

E-Prescribing DARAPRIM

Now Easier Than Ever

DARAPRIM can be e-prescribed through the DARAPRIM Direct Program by using your normal e-prescribing system and then faxing an authorization form to the DARAPRIM Direct Hub.

Follow the step-by-step instructions below to learn how to e-prescribe DARAPRIM through DARAPRIM Direct. The DARAPRIM Direct dedicated support team of Case Managers will then assist your patient in obtaining financial assistance and delivery of their prescription.

How to E-Prescribe



Step 1: Locate the following NPI in your e-prescribing system:

NPI: 1538590690



Step 2: Select the following pharmacy:

**ASPN Pharmacies LLC
200 Park Avenue, Suite 300
Florham Park, NJ 07932
Phone: 1-973-295-3289**

- If the pharmacy does not appear, call your system provider to update your system



Step 3: Save the pharmacy in your system

- If prompted, select: "Specialty Pharmacy" and/or "Mail Order"



Step 4: Transmit your prescription

- Depending on the e-prescribing system that your facility utilizes, you may or may not receive a confirmation that the prescription has been successfully sent



Step 5: Have your patient sign the HIPAA Authorization Form and Fax it

- **Your patient will need to sign the HIPAA Authorization Form (page 2 of this form) to access the financial assistance programs and to ensure delivery of their prescription¹**

**Make sure to have your patient sign the second page and fax it to
1-877-241-1365**

DARAPRIM[®]
(pyrimethamine) 25mg tablets

¹Financial assistance programs are subject to terms and conditions and patient eligibility requirements. Restrictions, including where prohibited by law, may apply. Offers are subject to change or discontinuance without notice. Financial assistance programs are not insurance nor are they intended to be a substitute for insurance.

PATIENT REPRESENTATIVE

By signing below, I authorize my Designee, listed below, to receive administrative information related to my treatment, such as appointment reminders, and to make decisions on my behalf—for which I will remain liable—regarding delivery of DARAPRIM[®] (pyrimethamine). Asembia, LLC., and its affiliates, representatives, agents and contractors is not liable for any decision(s) made by the Designee or actions taken in reliance on such Designee decisions.

Designee Name: _____ Relationship: _____ Phone #: _____

Patient's Signature: _____ Date: _____

PATIENT AUTHORIZATION

I, or my authorized representative, hereby authorize the pharmacy receiving my referral or dispensing my medication, and its affiliates, representatives, agents, and contractors (collectively, "Pharmacy"), to use and disclose all of my individually identifiable health information; protected health information including but not limited to records that may contain information created by other persons or entities, including physicians and other health care providers, as well as information regarding the use of drug and alcohol treatment services, confidential HIV/AIDS treatment, mental health services (excluding psychotherapy notes), information about my medical condition, prescription, treatment, care management, and health insurance; and any other personal information, including all demographic information, email addresses, phone numbers, and other information, in the possession or control of Pharmacy (collectively "Information"), to Asembia, LLC., its affiliates, representatives, agents, and contractors, ("Asembia"); Turing Pharmaceuticals LLC., and including any patient assistance program administrator(s) (collectively "Turing") for Daraprim.

The Information may be used and disclosed for purposes of: (1) providing, coordinating, managing, and contacting me about, my prescriptions (including medication refill and adherence reminders), treatment, patient support, and other services related to my Turing therapies including providing information to the pharmacy dispensing my medication; (2) establishing my benefits eligibility, including for any financial or reimbursement support services offered by or on behalf of Turing; (3) communicating with me and my healthcare providers, health plans, and other payers about my medical care; and (4) providing me with information about current or future products or services.

I understand that Pharmacy may receive a fee from Turing in exchange for (1) providing me with certain materials and information described above, and (2) using or disclosing certain Information pursuant to this Authorization. I also understand that once my Information has been shared with Turing or Asembia, it may be re-disclosed by Turing or Asembia and no longer protected by the federal Privacy Rule. However, other state and federal laws may establish continuing protections for the disclosed information and prohibit Turing or Asembia from disclosing specially protected information such as substance abuse treatment information, HIV/AIDS-related information, and psychiatric/mental health information.

I understand that I may revoke this Authorization at any time, in writing, by sending written notification to Asembia, LLC., 100 Campus Drive, Suite 300, Florham Park, NJ, 07931. I understand that revoking this Authorization will prohibit disclosures of my information after the date the cancellation letter is received, but will not be affected disclosures made by Pharmacy to Turing or Asembia in reliance on this Authorization.

I understand that signing this Authorization is voluntary. I have the right to refuse to sign this Authorization and my refusal to sign will not affect my ability to obtain treatment or my eligibility for health plan benefits, and my Information will not be released. However, I understand that I will not have access to additional patient support, financial, or related services offered by Turing. This authorization expires December 31, 2099, or at an earlier date if required by state law. I understand that I have the right to receive a copy of this Authorization.

Patient or Authorized Representative Signature: _____ If Authorized Rep, State Basis for Authority: _____

Patient's Printed Name: _____ Date: _____

NOTE TO RECIPIENT OF INFORMATION:

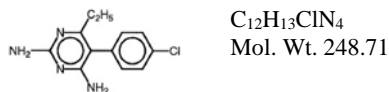
HIV Related Information: To the extent that HIV-related information has been provided to you, such information has been disclosed to you from records whose confidentiality is protected by state law. State law prohibits you from making any further disclosure of it without the specific written consent of the person to whom it pertains, or as otherwise permitted by said law. A general authorization for the release of medical or other information is NOT sufficient for this purpose. An oral disclosure shall be accompanied or followed by such notice within ten days.

DARAPRIM® (pyrimethamine) 25 mg tablets
Rx Only

PRESCRIBING INFORMATION

DESCRIPTION

DARAPRIM (pyrimethamine) is an antiparasitic compound available in tablet form for oral administration. Each scored tablet contains 25 mg pyrimethamine and the inactive ingredients corn and potato starch, lactose, and magnesium stearate. Pyrimethamine, known chemically as 5-(4-chlorophenyl)-6-ethyl-2,4-pyrimidinediamine, has the following structural formula:



CLINICAL PHARMACOLOGY

Pyrimethamine is well absorbed with peak levels occurring between 2 to 6 hours following administration. It is eliminated slowly and has a plasma half-life of approximately 96 hours. Pyrimethamine is 87% bound to human plasma proteins.

Microbiology: Pyrimethamine is a folic acid antagonist and the rationale for its therapeutic action is based on the differential requirement between host and parasite for nucleic acid precursors involved in growth. This activity is highly selective against plasmodia and *Toxoplasma gondii*.

Pyrimethamine possesses blood schizonticidal and some tissue schizonticidal activity against malaria parasites of humans. However, the 4-amino-quinoline compounds are more effective against the erythrocytic schizonts. It does not destroy gametocytes, but arrests sporogony in the mosquito.

The action of pyrimethamine against *Toxoplasma gondii* is greatly enhanced when used in conjunction with sulfonamides. This was demonstrated by Eyles and Coleman¹ in the treatment of experimental toxoplasmosis in the mouse. Jacobs et al² demonstrated that combination of the 2 drugs effectively prevented the development of severe uveitis in most rabbits following the inoculation of the anterior chamber of the eye with toxoplasma.

INDICATIONS AND USAGE

Treatment of Toxoplasmosis: DARAPRIM is indicated for the treatment of toxoplasmosis when used conjointly with a sulfonamide, since synergism exists with this combination.

Treatment of Acute Malaria: DARAPRIM is also indicated for the treatment of acute malaria. It should not be used alone to treat acute malaria. Fast-acting schizonticides such as chloroquine or quinine are indicated and preferable for the treatment of acute malaria. However, conjoint use of DARAPRIM with a sulfonamide (e.g., sulfadoxine) will initiate

transmission control and suppression of susceptible strains of plasmodia.

Chemoprophylaxis of Malaria: DARAPRIM is indicated for the chemoprophylaxis of malaria due to susceptible strains of plasmodia. However, resistance to pyrimethamine is prevalent worldwide. It is not suitable as a prophylactic agent for travelers to most areas.

CONTRAINDICATIONS

Use of DARAPRIM is contraindicated in patients with known hypersensitivity to pyrimethamine or to any component of the formulation. Use of the drug is also contraindicated in patients with documented megaloblastic anemia due to folate deficiency.

WARNINGS

The dosage of pyrimethamine required for the treatment of toxoplasmosis is 10 to 20 times the recommended antimalaria dosage and approaches the toxic level. If signs of folate deficiency develop (see **ADVERSE REACTIONS**), reduce the dosage or discontinue the drug according to the response of the patient. Folinic acid (leucovorin) should be administered in a dosage of 5 to 15 mg daily (orally, IV, or IM) until normal hematopoiesis is restored.

Data in 2 humans indicate that pyrimethamine may be carcinogenic; a 51-year-old female who developed chronic granulocytic leukemia after taking pyrimethamine for 2 years for toxoplasmosis³ and a 56-year-old patient who developed reticulum cell sarcoma after 14 months of pyrimethamine for toxoplasmosis.⁴

Pyrimethamine has been reported to produce a significant increase in the number of lung tumors in mice when given intraperitoneally at doses of 25 mg/kg.⁵

DARAPRIM should be kept out of the reach of infants and children as they are extremely susceptible to adverse effects from an overdose. Deaths in pediatric patients have been reported after accidental ingestion.

PRECAUTIONS

General: The recommended dosage for chemoprophylaxis of malaria should not be exceeded. A small "starting" dose for toxoplasmosis is recommended in patients with convulsive disorders to avoid the potential nervous system toxicity of pyrimethamine. DARAPRIM should be used with caution in patients with impaired renal or hepatic function or in patients with possible folate deficiency, such as individuals with malabsorption syndrome, alcoholism, or pregnancy, and those receiving therapy, such as phenytoin, affecting folate levels (see Pregnancy subsection).

Information for Patients: Patients should be warned that at the first appearance of a skin rash they should stop use of DARAPRIM and seek medical attention immediately. Patients should also be warned that the appearance of

sore throat, pallor, purpura, or glossitis may be early indications of serious disorders which require treatment with DARAPRIM to be stopped and medical treatment to be sought. Women of childbearing potential who are taking DARAPRIM should be warned against becoming pregnant. Patients should be warned to keep DARAPRIM out of the reach of children. Patients should be advised not to exceed recommended doses. Patients should be warned that if anorexia and vomiting occur, they may be minimized by taking the drug with meals. Concurrent administration of folinic acid is strongly recommended when used for the treatment of toxoplasmosis in all patients.

Laboratory Tests: In patients receiving high dosage, as for the treatment of toxoplasmosis, semiweekly blood counts, including platelet counts, should be performed.

Drug Interactions: Pyrimethamine may be used with sulfonamides, quinine and other antimalarials, and with other antibiotics. However, the concomitant use of other antifolate drugs or agents associated with myelosuppression including sulfonamides or trimethoprim-sulfamethoxazole combinations, proguanil, zidovudine, or cytostatic agents (e.g., methotrexate), while the patient is receiving pyrimethamine, may increase the risk of bone marrow suppression. If signs of folate deficiency develop, pyrimethamine should be discontinued. Folinic acid (leucovorin) should be administered until normal hematopoiesis is restored (see WARNINGS). Mild hepatotoxicity has been reported in some patients when lorazepam and pyrimethamine were administered concomitantly.

Carcinogenesis, Mutagenesis, Impairment of Fertility: See WARNINGS section for information on carcinogenesis.

Mutagenesis: Pyrimethamine has been shown to be nonmutagenic in the following *in vitro* assays: the Ames point mutation assay, the Rec assay, and the *E. coli* WP2 assay. It was positive in the L5178Y/TK +/- mouse lymphoma assay in the absence of exogenous metabolic activation.⁶ Human blood lymphocytes cultured *in vitro* had structural chromosome aberrations induced by pyrimethamine.

In vivo, chromosomes analyzed from the bone marrow of rats dosed with pyrimethamine showed an increased number of structural and numerical aberrations.

Pregnancy: Teratogenic Effects: Pregnancy Category C. Pyrimethamine has been shown to be teratogenic in rats when given in oral doses 7 times the human dose for chemoprophylaxis of malaria or 2.5 times the human dose for treatment of toxoplasmosis. At these doses in rats, there was a significant increase in abnormalities such as cleft palate, brachygnathia, oligodactyly, and microphthalmia. Pyrimethamine has also been shown to produce terata such as meningocele in hamsters and cleft palate in miniature pigs when given in oral doses 170

and 5 times the human dose, respectively, for chemoprophylaxis of malaria or for treatment of toxoplasmosis.

There are no adequate and well-controlled studies in pregnant women. DARAPRIM should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Concurrent administration of folic acid is strongly recommended when used for the treatment of toxoplasmosis during pregnancy.

Nursing Mothers: Pyrimethamine is excreted in human milk. Because of the potential for serious adverse reactions in nursing infants from pyrimethamine and from concurrent use of a sulfonamide with DARAPRIM for treatment of some patients with toxoplasmosis, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother (see **WARNINGS** and **PRECAUTIONS: Pregnancy**).

Pediatric Use: See **DOSAGE AND ADMINISTRATION** section.

Geriatric Use: Clinical studies of DARAPRIM did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

ADVERSE REACTIONS

Hypersensitivity reactions, occasionally severe (such as Stevens-Johnson syndrome, toxic epidermal necrolysis, erythema multiforme, and anaphylaxis), and hyperphenylalaninemia, can occur particularly when pyrimethamine is administered concomitantly with a sulfonamide. Consult the complete prescribing information for the relevant sulfonamide for sulfonamide-associated adverse events. With doses of pyrimethamine used for the treatment of toxoplasmosis, anorexia and vomiting may occur. Vomiting may be minimized by giving the medication with meals; it usually disappears promptly upon reduction of dosage. Doses used in toxoplasmosis may produce megaloblastic anemia, leukopenia, thrombocytopenia, pancytopenia, neutropenia, atrophic glossitis, hematuria, and disorders of cardiac rhythm. Hematologic effects, however, may also occur at low doses in certain individuals (see **PRECAUTIONS; General**).

Pulmonary eosinophilia has been reported rarely.

OVERDOSAGE

Following the ingestion of 300 mg or more of pyrimethamine, gastrointestinal and/or central nervous system signs may be present, including convulsions. The initial symptoms are usually gastrointestinal and may include abdominal pain, nausea, severe and repeated vomiting, possibly including hematemesis. Central nervous system toxicity may be manifest by initial excitability, generalized and prolonged convulsions which may be followed by respiratory depression, circulatory collapse, and death within a few hours. Neurological symptoms appear rapidly (30 minutes to 2 hours after drug ingestion), suggesting that in gross overdose pyrimethamine has a direct toxic effect on the central nervous system.

The fatal dose is variable, with the smallest reported fatal single dose being 375 mg. There are, however, reports of pediatric patients who have recovered after taking 375 to 625 mg.

There is no specific antidote to acute pyrimethamine poisoning. In the event of overdose, symptomatic and supportive measures should be employed. Gastric lavage is recommended and is effective if carried out very soon after drug ingestion. Parenteral diazepam may be used to control convulsions. Folic acid should be administered within 2 hours of drug ingestion to be most effective in counteracting the effects on the hematopoietic system (see **WARNINGS**). Due to the long half-life of pyrimethamine, daily monitoring of peripheral blood counts is recommended for up to several weeks after the overdose until normal hematologic values are restored.

DOSAGE AND ADMINISTRATION

For Treatment of Toxoplasmosis: The dosage of DARAPRIM for the treatment of toxoplasmosis must be carefully adjusted so as to provide maximum therapeutic effect and a minimum of side effects. At the dosage required, there is a marked variation in the tolerance to the drug. Young patients may tolerate higher doses than older individuals. Concurrent administration of folic acid is strongly recommended in all patients.

The adult *starting* dose is 50 to 75 mg of the drug daily, together with 1 to 4 g daily of a sulfonamide of the sulfapyrimidine type, e.g. sulfadoxine. This dosage is ordinarily continued for 1 to 3 weeks, depending on the response of the patient and tolerance to therapy. The dosage may then be reduced to about one half that previously given for each drug and continued for an additional 4 to 5 weeks.

The pediatric dosage of DARAPRIM is 1 mg/kg/day divided into 2 equal daily doses; after 2 to 4 days this dose may be reduced to one half and continued for approximately 1 month. The usual pediatric sulfonamide dosage is used in conjunction with DARAPRIM.

For Treatment of Acute Malaria:

DARAPRIM is NOT recommended alone in the treatment of acute malaria. Fast-acting schizonticides, such as chloroquine or quinine, are indicated for treatment of acute malaria. However, DARAPRIM at a dosage of 25 mg daily for 2 days with a sulfonamide will initiate transmission control and suppression of non-falciparum malaria. DARAPRIM is only recommended for patients infected in areas where susceptible plasmodia exist. Should circumstances arise wherein DARAPRIM must be used alone in semi-immune persons, the adult dosage for acute malaria is 50 mg for 2 days; children 4 through 10 years old may be given 25 mg daily for 2 days. In any event, clinical cure should be followed by the once-weekly regimen described below for chemoprophylaxis. Regimens which include suppression should be extended through any characteristic periods of early recrudescence and late relapse, i.e., for at least 10 weeks in each case.

For Chemoprophylaxis of Malaria:

Adults and pediatric patients over 10 years – 25 mg (1 tablet) once weekly

Children 4 through 10 years – 12.5 mg (½ tablet) once weekly

Infants and children under 4 years – 6.25 mg (¼ tablet) once weekly.

HOW SUPPLIED:

White, scored tablets containing 25 mg pyrimethamine, imprinted with “DARAPRIM” and “A3A” in bottles of 100 (NDC 69413-330-10) and bottles of 30 (NDC 69413-330-30).

Store at 15° to 25°C (59° to 77°F) in a dry place and protect from light.

REFERENCES

1. Eyles DE, Coleman N. Synergistic effect of sulfadiazine and Daraprim against experimental toxoplasmosis in the mouse. *Antibiot Chemother* 1953;3:483-490.
2. Jacobs L, Melton ML, Kaufman HE. Treatment of experimental ocular toxoplasmosis. *Arch Ophthalmol*. 1964;71:111-118.
3. Jim RTS, Elizaga FV. Development of chronic granulocytic leukemia in a patient treated with pyrimethamine. *Hawaii Med J*. 1977;36:173-176.
4. Sadoff L. Antimalarial drugs and Burkitt's lymphoma. *Lancet*. 1973;2:1262-1263.
5. Bahna L. Pyrimethamine. *LARC Monogr Eval Carcinog Risk Chem*. 1977;13:233-242.
6. Clive D, Johnson KO, Spector JKS, et al. Validation and characterization of the L5178Y/TK +/- mouse lymphoma mutagen assay system. *Mut Res*. 1979;59:61-108.

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