

HEMA: Neutropenia, thrombocytopenia, anemia, bleeding, epistaxis, transient lymphocytosis

INTEG: Rash, skin infections

MS: Pain, arthralgia, muscle cramps

RESP: Cough, dyspnea

SYST: Secondary malignancy, infection

PHARMACOKINETICS

Protein binding 97.3%; metabolized by CYP3A4/CYP2D6; primarily excreted in feces, small amount in urine; peak 1-2 hr, terminal half-life 4-8 hr

INTERACTIONS

Increase: ibrutinib effect—avoid use with moderate or strong CYP3A4 inhibitors (clarithromycin, indinavir, itraconazole, ketoconazole, nelfinavir, posaconazole, ritonavir, saquinavir, voriconazole)

Decrease: ibrutinib effect—avoid use with moderate or strong CYP3A4 inducers (carbamazepine, phenytoin, rifampin)

Drug/Herb

Decrease: SUNItinib concentration—St. John's wort

Drug/Food Test

Increase: plasma concentrations—grapefruit juice; avoid use

Drug/Lab Test

Increase: lymphocytes, uric acid, creatinine

NURSING CONSIDERATIONS

Assess:

- **Bleeding:** bruising; grade 3 or higher bleeding events may occur; may be fatal; CBC
- **Hypersensitivity:** trouble breathing, fever, itching, wheezing, swelling of face, lips, tongue; stop product immediately, provide supportive treatment
- **Renal failure:** monitor for renal infection (BUN, creatinine), maintain hydration, monitor for hyperuricemia
- **Infection:** fever, sore throat, malaise; infections may be fatal
- **Cardiac changes/hypertension:** monitor B/P and for cardiac changes
- **Secondary malignancies:** monitor for new malignancies
- Hepatic/renal function; signs and symptoms of infections

• **Surgery:** may interrupt treatment a few days before surgery

• **Pregnancy/breastfeeding:** identify whether pregnancy is planned or suspected or if breastfeeding

Evaluate:




• Therapeutic response: decrease in progression of disease

Teach patient/family:

- About reason for treatment, expected result
- That many adverse reactions may occur: high B/P, bleeding, mouth swelling, shortness of breath
- To avoid persons with known upper respiratory infections; that immunosuppression is common
- To avoid grapefruit juice or medications, herbs; there are many interactions
- **To report if pregnancy is planned or suspected, or if breastfeeding**
- **To report bleeding, severe infections, renal toxicity (maintain hydration), development of second malignancies, diarrhea (contact physician if it persists)**
- To take with water at same time each day; do not open, break, or chew
- To report immediately trouble breathing, fever, itching, wheezing, swelling of face, lips, tongue; stop product

ibuprofen (OTC, Rx)

(eye-byoo-proe'fen)

Advil, Advil Infant, Advil Junior, Advil Migraine, Children's Advil, Children's Europrofen , Children's Motrin, Ibuprohm, Ibutab, Midol, Motrin , Motrin IB, Motrin Infant, Motrin Junior 

ibuprofen lysine (Injection) (Rx)

Caldolor, NeoProfen

Func. class.: NSAID

Chem. class.: Propionic acid derivative

Do not confuse:

Motrin/neurontin