

Drug/Lab**Increase:** LFTs, glucose**Decrease:** Platelets**NURSING CONSIDERATIONS****Assess:**

- **VS baseline and frequently, hypotension** may occur, patient who are dehydrated are at greater risk
- **GI toxicity:** nausea, vomiting, diarrhea, constipation, may require antiemetics, anti-diarrheals
- **Thrombocytopenia, neutropenia:** CBC baseline and periodically, platelets before each dose, dose adjustment may be required (nadir 11 platelets)
- **Fatal pulmonary toxicity:** assess for risk factors or new or worsening pulmonary symptoms
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- **Tumor lysis syndrome:** usually in patients with a high tumor burden (hyperkalemia, hyperuricemia, hyperphosphatemia, renal failure)
- **PRES:** Headache, malaise, confusion, seizures, blindness, hypertension, usually occurs within a few hours up to 1 yr after starting treatment, most symptoms do not need treatment, MRI confirms
- **PML:** For new infections of the brain

Evaluate:

- Therapeutic response: improvement of multiple myeloma symptoms

Teach patient/family:

- To monitor blood glucose levels if diabetic
- To contact prescriber about new or worsening peripheral neuropathy, severe vomiting, diarrhea, easy bruising, bleeding, infection
- To avoid driving, operating machinery until effect is known
- To avoid using other medications unless approved by prescriber
- About bleeding risk; to report bruising, bleeding
- **To immediately report headache, confusion, lethargy (PRES)**

- **Pregnancy/breastfeeding:** To use contraception while taking this product; to avoid breastfeeding

bosentan (Rx) REMS

(boh'sen-tan)

Tracleer*Func. class.:* Vasodilator*Chem. class.:* Endothelin receptor antagonist**Do not confuse:**

Tracleer/ Tricor

ACTION: Peripheral vasodilation occurs via the antagonism of the effect of endothelin on endothelium and vascular smooth muscle

USES: Pulmonary arterial hypertension with WHO class III, IV symptoms

Unlabeled uses: Septic shock to improve microcirculatory blood flow, functional class II pulmonary arterial hypertension

CONTRAINDICATIONS: Hypersensitivity, CVA, CAD

Black Box Warning: Pregnancy

Precautions: Breastfeeding, children, geriatric patients, mitral stenosis, anemia, edema, jaundice, hypovolemia, hypotension

Black Box Warning: Hepatic disease, requires an experienced clinician, contraceptive requirements, pregnancy testing

DOSAGE AND ROUTES**Pulmonary hypertension (pulmonary arterial hypertension WHO Group 1)**

- **Adults/adolescents >40 kg:** PO tab 62.5 mg bid \times 4 wk, then increase to 125 mg bid
- **Adults/adolescents \leq 40 kg:** PO tab 62.5 mg bid
- **Children 21-40 kg (unlabeled):** PO tab 62.5 mg bid
- **Infants/children 10-20 kg (unlabeled):** PO 31.25 mg q day for 4 wk