

From: Amgen Inc.
To: < Healthcare Provider email >
Subject: WARNING: Serious Risks Associated with BLINCYTO®



BLINCYTO® (blinatumomab) REMS

FDA-REQUIRED REMS SAFETY INFORMATION

Risk of:

- **Cytokine Release Syndrome (CRS), which may be life-threatening or fatal**
- **Neurological Toxicities, which may be severe, life-threatening or fatal**
- **Preparation and Administration Errors**

August 2016

Dear Healthcare Provider:

The FDA has required this safety notice as part of the **BLINCYTO® REMS** (**R**isk **E**valuation and **M**itigation **S**trategy) to inform you about the serious risks of BLINCYTO.

BOXED WARNING: Cytokine Release Syndrome

- Serious adverse events that may be associated with CRS included **pyrexia, headache, nausea, asthenia, hypotension, increased alanine aminotransferase, increased aspartate aminotransferase, and increased total bilirubin.**
- The highest elevation of cytokines was observed in the first 2 days following start of BLINCYTO infusion.
- Hospitalization is recommended for the first 9 days of the first cycle and the first 2 days of the second cycle.

BOXED WARNING: Neurological Toxicities

- In patients receiving BLINCYTO in clinical trials, neurological toxicities have occurred in approximately 64% of patients.
- The median time to onset of any neurological toxicity was 4 days.
- Grade 3 or higher (severe, life-threatening or fatal) neurological toxicities following initiation of BLINCYTO administration occurred in approximately 17% of patients and included **encephalopathy, convulsions, speech disorders, disturbances in consciousness, confusion and disorientation, and coordination and balance disorders**. The majority of events resolved following interruption of BLINCYTO, but some resulted in treatment discontinuation.

Monitor patients closely for signs and symptoms of these events and interrupt or discontinue dosing of BLINCYTO.

OTHER SERIOUS RISKS: Preparation and Administration Errors

- **It is very important that the instruction for preparation (including admixing) and administration are strictly followed to minimize medication errors (including underdose and overdose).**
- Please note that the recommended dose for BLINCYTO is by patient weight. Patients greater than or equal to 45 kg receive a fixed-dose and for patients less than 45 kg, the dose is calculated using the patient's body surface area (BSA).

Please see the non-promotional REMS Fact Sheet, reviewed by the FDA available at www.blincyto.rems.com and the full Prescribing Information for more detailed safety information. Additional copies of the Fact Sheet and other important information are available at: www.blincyto.rems.com.

BLINCYTO is a bispecific CD19-directed CD3 T-cell engager indicated for the treatment of Philadelphia chromosome-negative relapsed or refractory B-cell precursor acute lymphoblastic leukemia (ALL).

To review the Prescribing Information and Medication Guide, see links below:

[Prescribing Information](#)

[Medication Guide](#)

REPORTING ADVERSE EVENTS

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088. Healthcare Providers should report all suspected adverse events associated with BLINCYTO to the FDA or to Amgen at 1-800-77-AMGEN (1-800-772-6436).

Sincerely,

Isma Benattia, MD, MBE
Vice President, Global Patient Safety

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