

# Overall survival and incidence of adverse events in B-cell acute lymphoblastic leukemia (ALL) patients after allogeneic stem cell transplant: blinatumomab vs non-blinatumomab chemotherapy-- an analysis of the Center for International Blood and Marrow Transplant Research database (20170610) (Transplant outcomes among ALL in CIBMTR)

**First published:** 02/03/2020

**Last updated:** 12/05/2025

Study

Finalised

## Administrative details

### EU PAS number

EUPAS33745

### Study ID

34227

## **DARWIN EU® study**

No

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### **Study countries**

- Austria
- Belgium
- Bulgaria
- Canada
- Croatia
- Cyprus
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Ireland
- Italy
- Latvia
- Lithuania
- Luxembourg
- Malta
- Netherlands
- Poland
- Portugal
- Romania
- Slovakia
- Slovenia
- Spain

- Sweden
  - United Kingdom
  - United States
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## Study status

Finalised

# Research institutions and networks

## Institutions

### Amgen

- United States

**First published:** 01/02/2024

**Last updated:** 21/02/2024

**Institution**

## Networks

Center for International Blood and Marrow  
Transplant, Milwaukee, WI

## Contact details

**Study institution contact**

Global Development Leader Amgen Inc.  
[medinfo@amgen.com](mailto:medinfo@amgen.com)

**Study contact**

[medinfo@amgen.com](mailto:medinfo@amgen.com)

**Primary lead investigator**

Global Development Leader Amgen Inc.

**Primary lead investigator**

## Study timelines

**Date when funding contract was signed**

Planned: 16/10/2018

Actual: 16/10/2018

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**Study start date**

Planned: 13/03/2020

Actual: 18/03/2020

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**Data analysis start date**

Planned: 01/10/2024

Actual: 01/10/2024

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**Date of final study report**

Planned: 30/04/2025

Actual: 17/04/2025

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## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

Amgen

## Study protocol

[01.02.06 Public Redacted Protocol Ver 0.9 2020-02-13 English.pdf \(774.17 KB\)](#)

[Protocol-Published Original blinatumomab 20170610 .pdf \(736.92 KB\)](#)

## Regulatory

### **Was the study required by a regulatory body?**

Yes

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### **Is the study required by a Risk Management Plan (RMP)?**

EU RMP category 3 (required)

## Methodological aspects

### Study type

### Study type list

#### **Study topic:**

Disease /health condition

Human medicinal product

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**Study type:**

Non-interventional study

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**Scope of the study:**

Assessment of risk minimisation measure implementation or effectiveness

Effectiveness study (incl. comparative)

**Main study objective:**

To assess outcomes of blinatumomab and non-blinatumomab regimens as transplant enabling therapy in ALL patients.

## Study Design

**Non-interventional study design**

Cohort

## Study drug and medical condition

**Medicinal product name, other**

blyncto

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**Study drug International non-proprietary name (INN) or common name**

BLINATUMOMAB

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**Anatomical Therapeutic Chemical (ATC) code**

(L01FX07) blinatumomab

## **Medical condition to be studied**

B-cell type acute leukaemia

## **Population studied**

### **Age groups**

- Preterm newborn infants (0 – 27 days)
  - Term newborn infants (0 – 27 days)
  - Infants and toddlers (28 days – 23 months)
  - Children (2 to < 12 years)
  - Adolescents (12 to < 18 years)
  - Adults (18 to < 46 years)
  - Adults (46 to < 65 years)
  - Adults (65 to < 75 years)
  - Adults (75 to < 85 years)
  - Adults (85 years and over)
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### **Special population of interest**

Hepatic impaired

Immunocompromised

Pregnant women

Renal impaired

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### **Estimated number of subjects**

1000

## **Study design details**

## **Outcomes**

1. Estimate 100-day mortality
  2. Estimate the incidence of graft versus host disease (GVHD) (acute and chronic), Estimate 3-year overall survival (OS)Leukemia-free survival (LFS)Incidence of disease relapse Incidence of transplant-related mortality (TRM)Incidence of veno-occlusive disease/sinusoidal obstructive syndrome Incidence of new malignancies Incidence of GVHD by severity (acute and chronic)Incidence of early (<100 days) infections Incidence of persistent post-transplant B-cell depletion
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## **Data analysis plan**

Descriptive summary of patient characteristics for all groups will be generated from all covariates specified in covariates of interest section. To estimate the incidence and risk of the outcomes of interest, the incidence proportion will be described for all outcomes.

Time-to-event analyses will be described using KM method for OS and LFS, cumulative incidence method for competing risk outcome events for median and probabilities at fixed time points.

Estimates will be generated for all groups.

If at least 219 N-BL SOC patients are identified in the study, propensity scores will be estimated for the propensity of treatment with blinatumomab based on covariates listed. Adjustment method for baseline covariates between r/r BL only and r/r N-BL SOC groups will be evaluated using inverse probability of treatment weighting and the average treatment effect method.

Weighted comparisons between groups will be made by logistic or Cox regression models estimating odds ratio and hazard ratio.

## **Documents**

### **Study report**

## Data management

### ENCePP Seal

The use of the ENCePP Seal has been discontinued since February 2025.

The ENCePP Seal fields are retained in the display mode for transparency but are no longer maintained.

## Data sources

### **Data sources (types)**

Disease registry

## Use of a Common Data Model (CDM)

### **CDM mapping**

No

## Data quality specifications

### **Check conformance**

Yes

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### **Check completeness**

Yes

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**Check stability**

Yes

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**Check logical consistency**

Yes

## Data characterisation

**Data characterisation conducted**

Unknown