

EFFICACY IN Ph+ RELAPSED OR REFRACTORY B-ALL

BLINCYTO® WAS STUDIED IN AN OPEN-LABEL, MULTICENTRE, SINGLE-ARM PHASE II STUDY IN PATIENTS WITH Ph+ RELAPSED OR REFRACTORY B-ALL (ALCANTARA)¹

Martinelli G *et al. J Clin Oncol* 2017; 35:1795–802.

ALCANTARA STUDY DESIGN¹

Adults ≥18 years of age with relapsed or refractory Ph+ B-ALL:

- Relapsed after or refractory to at least 1 second- or later-generation TKI **OR**
 - Intolerant to second- or later-generation TKI and intolerant or refractory to imatinib **WITH**
 - >5% bone marrow blasts
 - ECOG performance status ≤2
- AND WITHOUT**
- History or presence of clinically relevant CNS pathology (eg, epilepsy, stroke, dementia)
 - Active acute or chronic GVHD or systemic treatment for GVHD within 2 weeks before treatment start
 - Allogeneic HSCT within 12 weeks of starting treatment in this trial

BLINCYTO® single-agent immunotherapy

- cIV infusion for 2 induction cycles followed by up to 3 consolidation cycles
- **Treatment cycle:** 4 weeks on drug, 2 weeks off
- **Dosing:** 9 mcg/day on Days 1-7 of Cycle 1 and 28 mcg/day on subsequent days

Adapted from Martinelli *et al.* 2017.¹

*Patients who achieved CR or CRh within the first two cycles could receive up to three additional cycles.

STUDY ENDPOINTS¹

Primary endpoint	<ul style="list-style-type: none">• CR or CRh during the first two cycles
Major secondary endpoints	<ul style="list-style-type: none">• MRD response rate (MRD negativity)• Rate of allogeneic HSCT• RFS• OS

CR was defined as ≤5% blasts in the bone marrow, no evidence of disease, and full recovery of peripheral blood counts (platelets >100,000/mcL and ANC >1,000/mcL).

CRh was defined as ≤5% blasts in the bone marrow, no evidence of disease, and partial recovery of peripheral blood counts (platelets >50,000/mcL and ANC >500/mcL).

A stringent definition of complete MRD response (no amplification of BCR-ABL by PCR with 10⁻⁵ sensitivity) was used.¹

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PATIENT POPULATION¹

BLINCYTO[®] WAS STUDIED IN A POOR PROGNOSIS Ph+ RELAPSED OR REFRACTORY B-ALL POPULATION¹

BASELINE DEMOGRAPHIC AND DISEASE CHARACTERISTICS	
Sex, n (%)	
Male	24 (53)
Median age (range), years	55 (23-78)
Age, n (%)	
18 to <55 years	22 (49)
≥55 years	23 (51)
Prior TKI exposure, n (%)	45 (100)
Dasatinib	39 (87)
Imatinib*	25 (56)
Ponatinib	23 (51)
Nilotinib	16 (36)
T315I mutation, n (%)	10 (27) [†]
Prior allogeneic HSCT, n (%)	20 (44)
Median baseline bone marrow blast, % (range)	80 (6-98)

84% of patients had received ≥2 prior TKI treatments.

51% of patients were resistant or intolerant to ponatinib.

27% of patients had the T315I mutation.

*One patient was resistant to imatinib and never exposed to another TKI (protocol deviation).

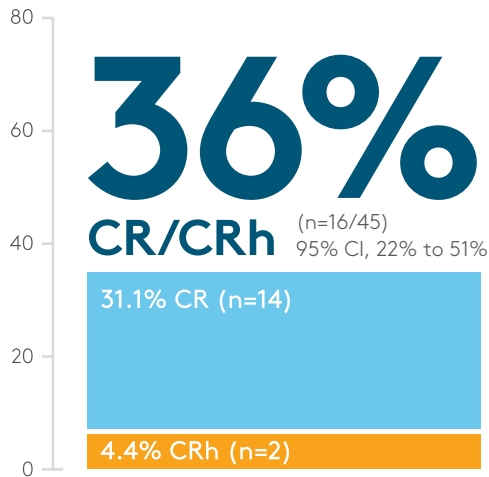
[†]37 patients had evaluable mutational analysis data.

EFFICACY IN Ph+ RELAPSED OR REFRACTORY B-ALL

BLINCYTO® INDUCED CR/CRh IN MORE THAN ONE THIRD OF PATIENTS¹

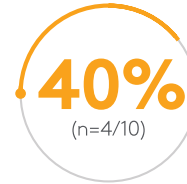
PRIMARY ENDPOINT: CR/CRh RATE WITHIN THE FIRST 2 BLINCYTO® TREATMENT CYCLES¹

Primary Endpoint: CR/CRh Rate Within 2 Treatment Cycles

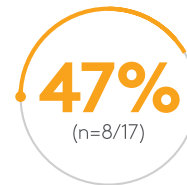


2 additional patients achieved CR with an incomplete haematologic recovery.

Consistent Response Across Subgroups¹



CR/CRh among patients with **T315I mutation**



CR/CRh among patients treated with **≥3 prior second- or later-generation TKIs**



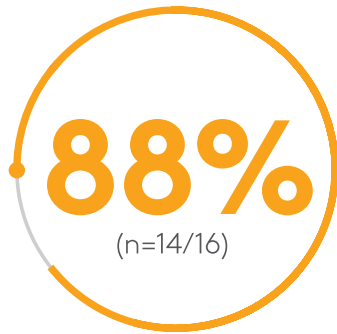
CR/CRh among patients with **ponatinib resistance/intolerance**

44% of responders (n=7/16) proceeded to transplant.¹

Adapted from Martinelli *et al.* 2017.¹

EFFICACY IN Ph+ RELAPSED OR REFRACTORY B-ALL

THE MAJORITY OF PATIENTS WHO ACHIEVED CR/CRh WITH BLINCYTO® HAD A COMPLETE MRD RESPONSE¹



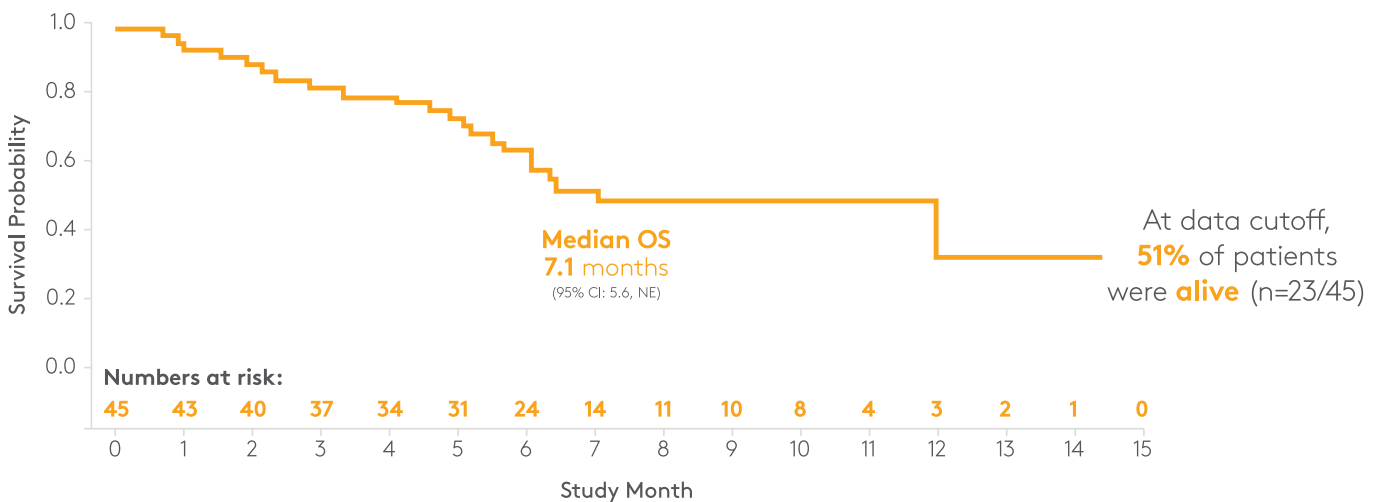
of patients with CR/CRh were
MRD negative within 2 treatment cycles.¹

- Complete MRD response (MRD negativity) was defined as no RT-PCR amplification of BCR-ABL at a sensitivity of 10⁻⁵.¹

Haematologic and molecular responses were independent of mutational status, including presence of the T315I mutation.¹

MEDIAN OS FOR ALL PATIENTS WAS 7.1 MONTHS¹

OS among patients treated with BLINCYTO®¹



Adapted from Martinelli *et al.* 2017.¹

Median RFS among patients who achieved CR/CRh was 6.7 months (95% CI, 4.4 to NE).¹

NE: not evaluable.

Reference: 1. Martinelli G *et al.* *J Clin Oncol* 2017; 35:1795–802.

SAFETY IN Ph+ RELAPSED OR REFRACTORY B-ALL

BLINCYTO®: CHEMOTHERAPY-FREE IMMUNOTHERAPY WITH A MANAGEABLE TOLERABILITY PROFILE¹

ADVERSE EVENTS AND NEUROLOGIC EVENTS (REGARDLESS OF CAUSALITY)¹

Event	GRADE					
	Any		3		4	
	No.	%	No.	%	No.	%
Patients with adverse events	45	100	33	73	16	36
Adverse events of grade ≥3 occurring in ≥5% of patients*						
Pyrexia	26	58	5	11	0	0
Febrile neutropenia	18	40	12	27	0	0
Headache	14	31	3	7	0	0
Anaemia	13	29	7	16	1	2
Thrombocytopenia	10	22	5	11	7	16
Pain	7	16	4	9	0	0
Increased AST	6	13	3	7	2	4
Increased ALT	5	11	5	11	0	0
Device-related infection	5	11	3	7	0	0
Neutropenia	3	7	0	0	3	7
Patients with neurologic events	21	47	3	7	0	0
Neurologic events occurring in two or more patients						
Paresthesia	6	13	0	0	0	0
Confused state	5	11	0	0	0	0
Dizziness	4	9	0	0	0	0
Tremor	4	9	0	0	0	0
Aphasia	2	4	1	2	0	0
Cerebellar syndrome	2	4	0	0	0	0
Memory impairment	2	4	0	0	0	0
Nervous system disorder	2	4	1	2	0	0

*Cutoff based on grade ≥3 adverse events.

Adapted from Martinelli *et al.* 2017.

Please see Adverse Events Management section for further details.

- The most common treatment-emergent adverse events with BLINCYTO® included pyrexia (58%), febrile neutropenia (40%), and headache (31%)¹
- 5 (11%) fatal treatment-emergent adverse events occurred, 1 of which was considered related to BLINCYTO® treatment (septic shock)¹



For more information on BLINCYTO® or to report any adverse events or product complaints involving BLINCYTO® please contact Australia Medical Information on 1800 803 638

PBS Information: Section 100 listed. Authority required.
Refer to PBS Schedule for full Authority listing.

WARNING: *The following have occurred in patients receiving BLINCYTO®:*

- *Cytokine Release Syndrome, which may be life-threatening or fatal*
 - *Neurological toxicities, which may be severe, life-threatening, or fatal*
 - *Reactivation of JC viral infection*
- Interrupt or discontinue BLINCYTO® as recommended if any of these adverse events occur (See Section 4.4 Special warnings and precautions for use and Section 4.2 Dose and method of administration).*

REFER TO FULL PRODUCT INFORMATION BEFORE PRESCRIBING; AVAILABLE FROM AMGEN AUSTRALIA PTY LTD, PH: 1800 803 638 OR AT WWW.AMGEN.COM.AU/BLINCYTO.PI

For more information about BLINCYTO® or to report an adverse event or product complaints about BLINCYTO®, please contact Amgen Medical Information on 1800 803 638.

BLINCYTO® Minimum Product Information: **Indication:** treatment of relapsed or refractory (R/R) B-cell precursor acute lymphoblastic leukaemia (ALL); treatment of minimal residual disease (MRD) positive ALL in patients in complete haematological remission. **Contraindications:** hypersensitivity to blinatumomab, CHO-derived proteins or any excipient. **Precautions:** neurologic events; increased risk for serious infections; cytokine release syndrome; infusion reactions; tumour lysis syndrome, pancreatitis. Management of these adverse reactions may require interruption or discontinuation of treatment. Neutropenia and febrile neutropenia; elevated liver enzymes; leukoencephalopathy; medication errors – strictly follow preparation and administration instructions. Pregnancy Category: C. Use contraception during and for 48 hours after treatment. Discontinue breast-feeding during and for at least 48 hours after treatment. Do not use recommended adult fixed dose in paediatric patients. No data in patients aged less than 28 days. **Interactions:** low potential of clinically meaningful drug interaction with BLINCYTO® mediated cytokine elevation. Vaccination with live viral vaccines not recommended 2 weeks prior to or during treatment, and until recovery of B lymphocytes to normal range following last treatment cycle. **Adverse Reactions:** Common: infections, pyrexia, infusion-related reactions, headache, anaemia, febrile neutropenia, neutropenia, thrombocytopenia, oedema, increased liver enzymes, fatigue, nausea, tremor, hypokalaemia, diarrhoea, chills. See also Precautions for serious adverse reactions. **Dosage & Administration:** **R/R ALL:** Single cycle is 4 weeks continuous intravenous (cIV) infusion then 2 week treatment free interval. *For patients greater than or equal to 45 kg (fixed dose):* Cycle 1 – starting dose 9 micrograms/day for days 1-7, then 28 micrograms/day for days 8-28. All other cycles 28 micrograms/day for 4 weeks. *For patients less than 45 kg (body surface area based dose):* Cycle 1 – starting dose 5 micrograms/m²/day for days 1-7 (do not exceed 9 micrograms/day), then 15 micrograms/m²/day (do not exceed 28 micrograms/day); all other cycles, 15 micrograms/m²/day (do not exceed 28 micrograms/day). For maintenance, 28 day cIV infusion, then 56 days treatment free. Hospitalise at least first 9 days of Cycle 1 and first 2 days of Cycle 2. Supervision or hospitalisation for other cycle starts and reinitiation. Adults: premedicate with 20 mg IV dexamethasone prior to initiation of each cycle. Intrathecal chemotherapy prophylaxis recommended before and during therapy. Treat with dexamethasone (≤ 24 mg/day) if high tumour burden. Paediatrics: premedicate with dexamethasone 10 mg/m² (not to exceed 20 mg) oral or IV 6 to 12 hours prior to start of BLINCYTO® (Cycle 1 day 1), followed by premedication with dexamethasone 5 mg/m² oral or IV within 30 minutes of start of BLINCYTO® (Cycle 1 day 1). **MRD+ ALL:** 28 day cIV infusion then 14 days treatment free, for up to 4 cycles; premedicate with prednisone 100 mg IV or equivalent 1 hour prior to start of BLINCYTO® each cycle; hospitalise first 3 days Cycle 1 and first 2 days Cycle 2, supervise/hospital for subsequent cycle starts and reinitiation – see full PI. **R/R & MRD+ ALL** – Interrupt BLINCYTO® if grade 3 neurological events, Cytokine Release Syndrome or other clinically relevant adverse reactions occur see full PI.

