

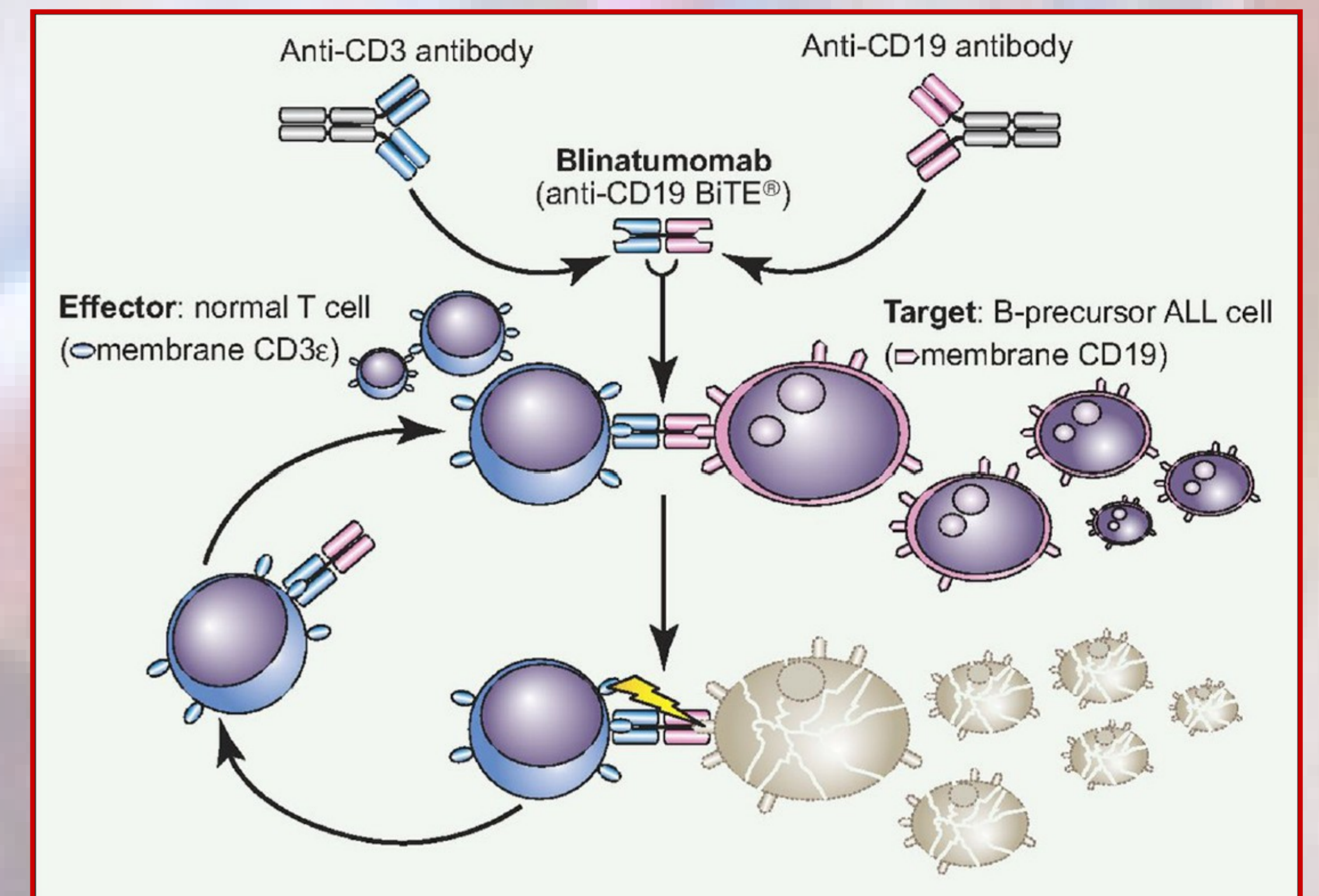
4CPS-105 BLINATUMOMAB FOR THE TREATMENT OF THE RELAPSE B-PRECURSOR ACUTE LYMPHOBLASTIC LEUKEMIA IN A PAEDIATRIC PATIENT: A CASE REPORT.

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BACKGROUND

Paediatric patients with relapsed B-precursor acute lymphoblastic leukemia (ALL) after hematopoietic stem cell transplantation (HSCT) have a poor prognosis and need to achieve another hematologic remission or very low or negative minimal residual disease (MRD) before proceeding to a subsequent HSCT. Blinatumomab is the first of a new class of bispecific single-chain antibody construct (BiTE) and is indicated for the treatment of adults with Philadelphia chromosome negative relapsed or refractory B-precursor ALL. In Paediatrics, blinatumomab is currently under investigation.



PURPOSE

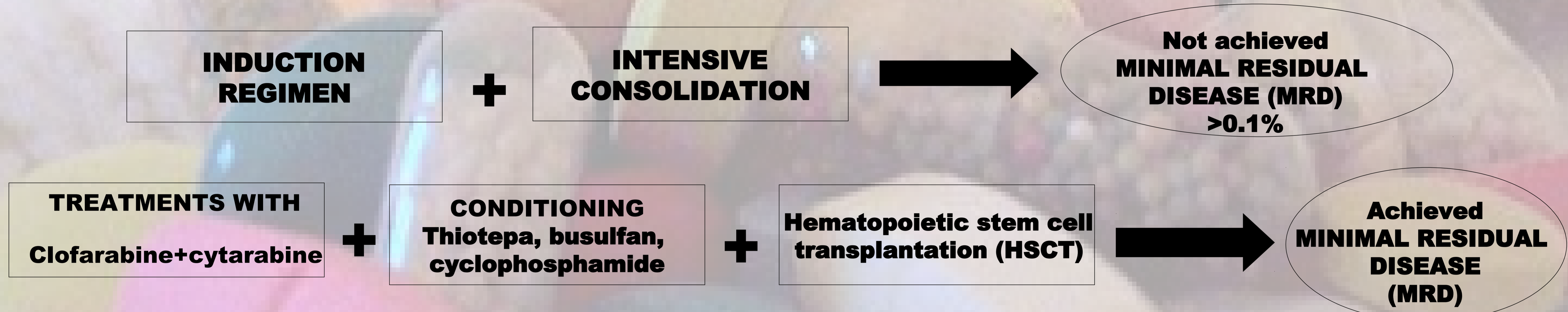
To describe the efficacy and safety of treatment with blinatumomab in a posttransplant relapsed paediatric case with B-precursor ALL compassionate use.

MATERIAL AND METHODS

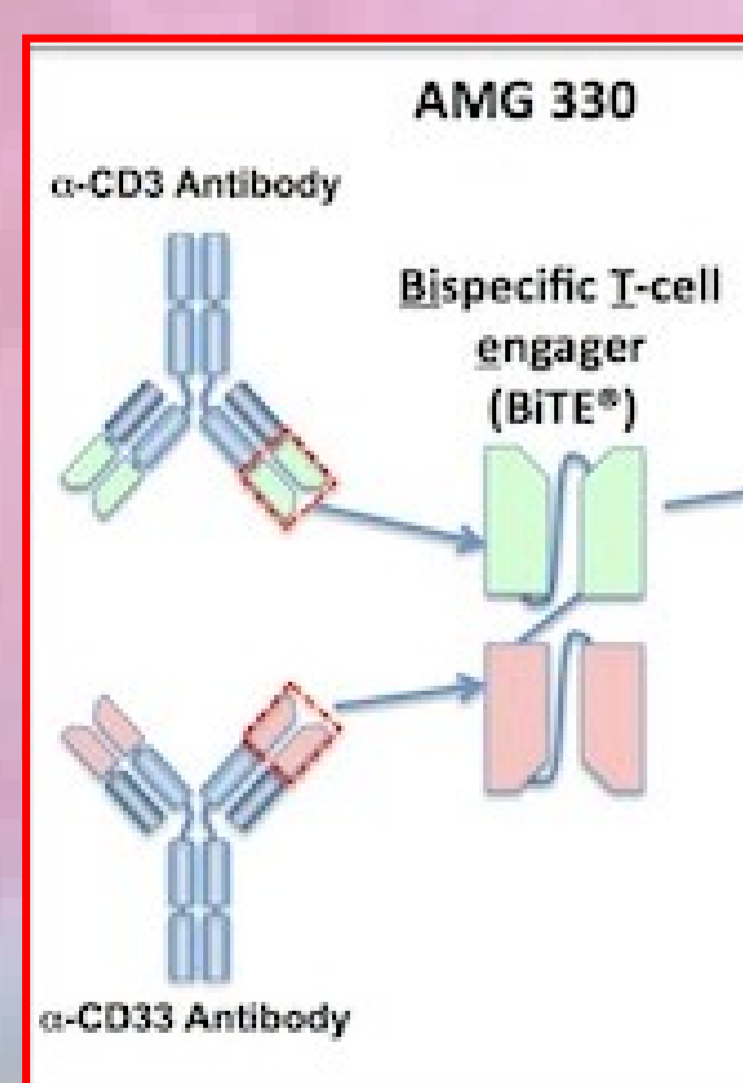
Retrospective case report of the use of blinatumomab in a 12-years-old child diagnosed with posttransplant relapsed B-precursor ALL. The data were obtained from the digital clinical history. MRD response was defined as MRD level $<10^{-4}$ at the end of treatment (MRD quantification by flow cytometry).

RESULTS

The patient was treated according to ALL SEHOP/PETHEMA-2013 paediatric protocol.



Eight months later, this patient underwent an isolated bone marrow relapse (MRD=19% and 25% blasts in the bone marrow).



Blinatumomab antibody

Treatments for 2 cycles (28 days each cycle)

Doses:
5mcg/m² during the first 8 days
and 15mcg/m² the rest of the treatment
14-day treatment-free interval per cycle

MRD NEGATIVE AND COMPLETE REMISSION

CONCLUSION

In this case of a paediatric patient with high risk ALL who relapse after HSCT, the use of blinatumomab was shown to be safe and effective achieving MRD. Nevertheless, more studies are needed to demonstrate its efficacy and safety profile.

ACKNOWLEDGEMENTS

No conflict of interest

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