

Acute Lymphoblastic Leukemia (ALL) (short version)

Recommendations from the society for diagnosis and therapy of
haematological and oncological diseases

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- [Guideline](#)
- [Conflict of interests](#)

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1 Summary

Acute lymphoblastic leukemia (ALL) is a rare malignant hematologic disorder. The peak incidence is in childhood. These recommendations refer to ALL in adults.

The clinical picture of ALL is characterized by proliferation and accumulation of malignant degenerate immature lymphoid blasts in bone marrow, blood, lymphoid and non-lymphoid tissues. Untreated, the disease leads to death within a few months.

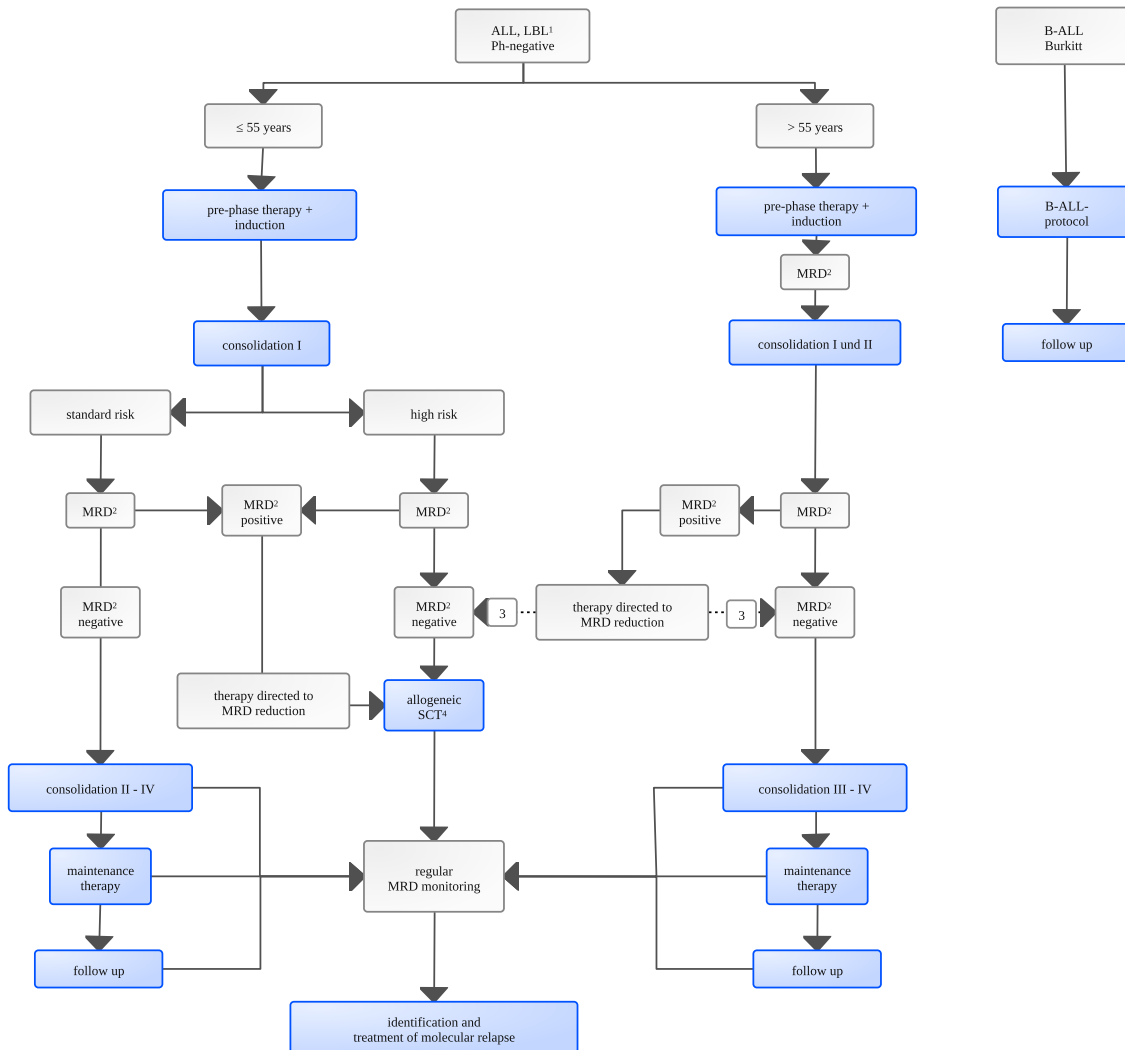
Biologically, ALL is heterogeneous. Genetic and immunophenotypic markers have prognostic significance and are now also predictive for subgroup-specific therapy.

Treatment has curative intent. The standard is established by the studies and expert recommendations of GMALL (German Multicenter Study Group for Adult Acute Lymphoblastic Leukemia). Long-term survival rates in adults have improved over the last decades and with the current concept for patients up to the age of 55 years are about 60-70% with large variations depending on age and risk group.

2 Therapy

The current treatment algorithm is depicted in [Figure 1](#) and [Figure 2](#).

Figure 1: Therapy structure in adults with acute lymphoblastic leukemia, Ph-negative



Legend:

■ curative treatment intent;

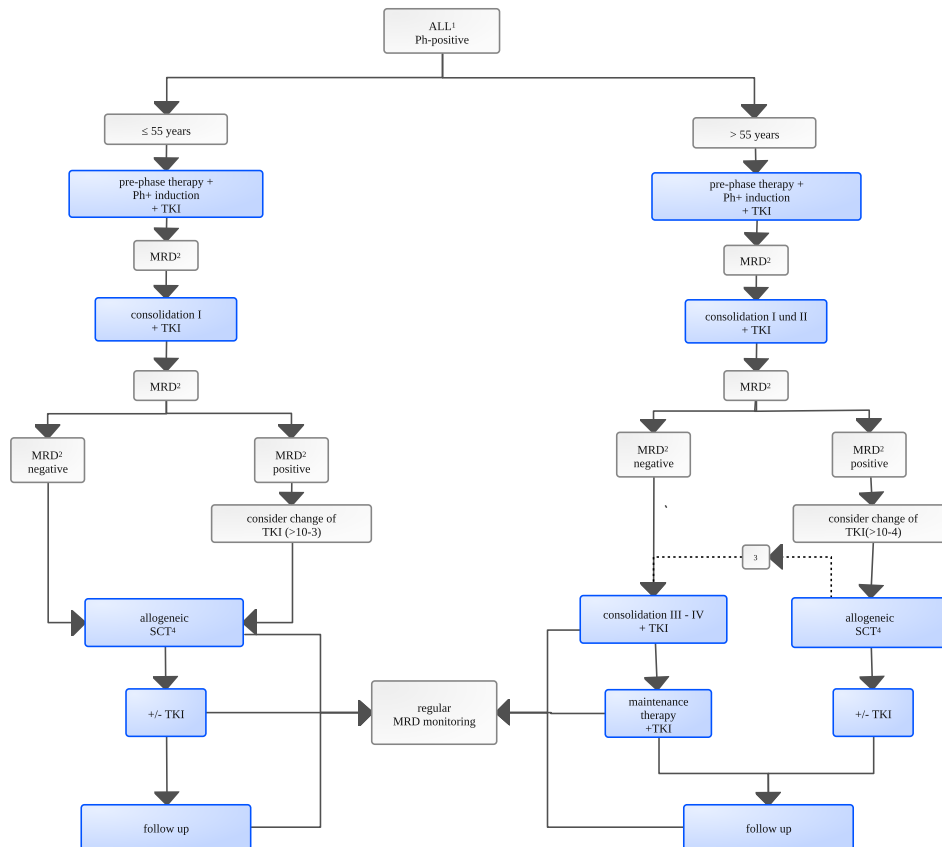
¹ ALL – acute lymphoblastic Leukemia, LBL – lymphoblastic lymphoma;

² MRD – quantification of minimal residual disease;

³ decision to patient’s individual requirement;

⁴ indication and conditioning regimen dependent on biological age and fitness

Figure 2: Therapy structure in adults with acute lymphoblastic leukemia, Ph-positive



Legend:

 curative treatment intent;

¹ ALL – acute lymphoblastic Leukemia, LBL – lymphoblastic lymphoma;

² MRD – quantification of minimal residual disease;

³ indication and conditioning regimen adapted to patient’s biological age;

⁴ TKI after SCT either MRD-based or preventive

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16 Disclosures

Conflicts of interest can be found in the [full German version of the guideline](#).