

t (12; 21) (p13; q22); ETV6-RUNX1 (TEL-AML1)

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(Real Time PCR)

Negative /
Positive

Comments

Precursor B-cell Acute Lymphoblastic Leukemia (ALL) accounts for 85% acute leukemias in children and 20% in adults. Most patients with ALL show an abnormal clone by conventional cytogenetic studies. The common chromosome translocations in pediatric ALL include t (1; 19) (q23; p13.3); TCF3-PBX1(E2A- PBX1), t(12; 21) (p13;q22); ETV6-RUNX1(TEL-AML1) & MLL gene rearrangement. All these translocations are important to detect as they are important prognostic markers. Detection of translocation t(12;21) which is commonest in B-ALL is associated with good prognosis in children.

Uses

- Quantifying disease before treatment and after therapy for patients with ALL
- Assessing residual disease after treatment