t(4;21)(q31;q22)

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Clinics and pathology

Disease
T-cell acute lymphoblastic leukemia (T-ALL).

Epidemiology
Only one case to date, a 12 year old male patient.

Prognosis
Unknown.

Cytogenetics

Cytogenetics morphological
A del(7q) was also present in the same clone.

Genes involved and proteins

Note
The gene in 4q31 is yet unknown, and because cryptic t(12;21) ETV6 /AML1 are not rare, it is therefore uncertain whether this translocation involve a new AML1 partner.

AML1
Location
21q22

DNA/RNA
Transcription is from telomere to centromere.

Protein
Contains a Runt domain and, in the C-term, a transactivation domain; forms heterodimers; widely expressed; nuclear localisation; transcription factor (activator) for various hematopoietic-specific genes.

References


This article should be referenced as such: