

t(2;21)(p11;q22)

Clinics and Pathology

Disease M1 acute non lymphocytic leukemia (ANLL)
Etiology no known prior exposure
Epidemiology only one case to date, a 78 yr old male patient
Prognosis death occurred during induction therapy

Cytogenetics

Cytogenetics sole anomaly in this patient
Morphological

Genes involved and Proteins

Note The gene in 2p11 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

Gene Name [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

External links

Other database [t\(2;21\)\(p11;q22\)](#) [Mitelman database \(CGAP - NCBI\)](#)

Other database [t\(2;21\)\(p11;q22\)](#) [CancerChromosomes \(NCBI\)](#)

To be noted

Additional cases are needed to delineate the epidemiology of this rare entity:
you are welcome to submit a paper to our new [Case Report](#) section.

Bibliography

Identification of two new translocations that disrupt the AML1 gene.

Richkind K, Hromas R, Lytle C, Crenshaw D, Velasco J, Roherty S, Srinivasiah J, Varella-Garcia M.

Cancer Genet Cytogenet 2000; 122: 141-143.

Medline [11106827](#)

Novel cryptic, complex rearrangements involving ETV6-CBFA2 (TEL-AML1) genes identified by fluorescence in situ hybridization in pediatric patients with acute lymphoblastic leukemia.

Mathew S, Shurtleff SA, Raimondi SC.

Genes Chromosomes Cancer. 2001; 32: 188-193.

Medline [11550288](#)

Contributor(s)

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<http://www.infobiogen.fr/services/chromcancer/Anomalies/t0221p11q22ID1261.html>

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