t(1;21)(p36;q22)

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Identity

Note: Only two cases, one with features identical to a case of t(18;21)(q21;q22), and a case of t(19;21)(q13.4;q22).

Clinics and pathology

Disease
Acute non lymphocytic leukemia (ANLL) secondary to toxic exposure.

Etiology
ANLL occurred about 50 years after radiation exposure from nuclear explosion in one case, 5 years after treatment with antitopoisomerase II for lung cancer in the other case.

Evolution
Complete remission in the two patients; relapse in the one documented case.

Prognosis
Unknown.

Genes involved and proteins

Note

The gene involved in 1p36 is unknown.

**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: