t(7;21)(p15;q22)

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**Clinics and pathology**

**Disease**

De novo acute myeloid leukemia (AML), type M2 with monocytosis or M4 in the case tested for RUNX1. Other cases presented with a chronic myelomonocytic leukemia evolving towards a M4-AML which may be therapy related, and with a M3-AML (promyelocytic leukemia) with t(15;17).

**Epidemiology**

Only three cases to date, 2 male and 1 female patients, aged 46, 70, ? (Koo et al., 1998; Jeandidier et al., 2006).

**Cytogenetics**

**Additional anomalies**

Sole anomaly in one case, presence of an unrelated clone in another. The t(7;21) accompanied the classical t(15;17)(q22;q11) in the M3-AML.

**Genes involved and proteins**

**Note**

The partner of RUNX1 is unknown.

**RUNX1**

**Location**

21q22

**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: