CASE REPORTS in HAEMATOLOGY

The rare t(4;12)(q11;p13) in an elderly patient with de novo AML with multilineage dysplasia co-expressing stem cell markers

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Clinics
Age and sex: 84 yrs old female patient
Previous history: no preleukemia; no previous malignant disease; - no inborn condition of note;
Organomegaly: no hepatomegaly; no splenomegaly; no enlarged lymph nodes; no central nervous system involvement

Blood
WBC: 30.2 x 10^9/l; Hb: 11.8 g/dl; platelets: 189 x 10^9/l;
Bone marrow: 20%

Survival
Date of diagnosis: March 2002
Treatment: Palliative treatment with oral etoposide
Complete remission: None
Treatment related death: -
Status: Dead July 2002
Survival: 4 months

Karyotype
Sample: Bone marrow; culture time: 24 hours; banding: GTL
Results: 46,XX,t(4;12)(q11;p13)[15]/46,XX[5]

This elderly woman did not receive induction chemotherapy. Her disease rapidly progressed from a smouldering leukaemia to a florid form. Findings are consistent
with previous reports of t(4;12) with stem cell leukaemia in older patients, and with rarity of additional cytogenetic changes.

**Internal links**

**Atlas Card**
- t(4;12)(q11-q21;p13)

**Case Report**
- The rare t(4;12)(q11;p13) in an elderly patient with de novo AML with multilineage dysplasia co-expressing stem cell markers
- (4;12)(q11;p13) in an acute myeloid leukemia without maturation with myelodysplasia

**Bibliography**

**Characterization of acute leukemia with t(4;12).**
Medline 9130613

**t(4;12)(q11;p13) in a CD7-negative acute myeloid leukaemia.**

**Fusion of a novel gene, BTL, to ETV6 in acute myeloid leukemias with a t(4;12)(q11-q12;p13).**
Medline 10477709

**A new translocation, t(2;4;12)(p21;q12;p13), in CD7-positive acute myeloid leukemia: a variant form of t(4;12).**
Medline 10549263

**Isochromosome (17)(q10) and translocation (4;12)(q12;p13) in a child with acute myeloid leukemia.**
Medline 11734325

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