

CASE REPORTS in HAEMATOLOGY
(Paper co-edited with the European LeukemiaNet)

A case of myeloproliferative disorder with t(5;10)(q33;q21.2)

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Clinics

Age and sex : 48 yrs old male patient

Previous history : no preleukemia ;

Organomegaly : no hepatomegaly; splenomegaly; no enlarged lymph nodes; no central nervous system involvement

Blood

WBC : $59.1 \times 10^9/l$; Hb : 11.1 g/dl; platelets : $58 \times 10^9/l$; blasts : less% than 1

Cyto pathology classification

Cytology and immunophenotype : ;

Precise diagnosis : Myeloproliferative disorder

Survival

Date of diagnosis: 03-1999

Treatment : HU,IS, BMT

Complete remission was obtained

Treatment related death : -

Relapse : -

Status : Alive

Survival : 75 mths +

Karyotype

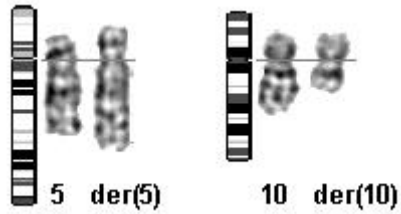
Sample : Bone marrow; culture time : FUDR; banding : G-banding

Results : 46,XY,t(5;10)(q33;q21.2)[16]/46,XY[8]

Other molecular studies

technics : PCR (Ratio BCR-ABL/ABL)

results : 11/2000: 0; 04/2001: 0; 03/2002: 0.18



Partial karyotype showing the t(5;10)(q33;q21.2) - G-banding

Comments

One third of the metaphases examined (8/24) were apparently normal male while the remaining majority of cells showed a balanced translocation between chromosomes 5 and 10. This translocation is poorly known: only 2 cases of atypical chronic myeloid leukemia of unknown prognosis. Further cases will help defining this rare entity.

Internal links

Atlas Card [t\(5;10\)\(q33;q21.2\)>t\(5;10\)\(q33;q21.2\)](#)

Bibliography

t(5;10)(q33;q21).

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Contributor(s)

Written 12-2006 Valeria AS De Melo, Alistair G Reid

Citation

This paper should be referenced as such :

De Melo VAS, Reid AG . A case of myeloproliferative disorder with t(5;10)(q33;q21.2). Atlas Genet Cytogenet Oncol Haematol. December 2006 .

URL : <http://AtlasGeneticsOncology.org/Reports/0510ReidID100019.html>

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