inv(18)(p11q21)

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Identity

Note: The anomaly is found in heterogeneous diseases, but the cases present some surprisingly similar cytogenetic features.

Clinics and pathology

Disease
Myelodysplastic syndrome and non Hodgkin lymphoma.

Epidemiology
Four cases are available to date: an indolent B-cell follicular lymphoma, a non Hodgkin lymphoma (NHL) not otherwise specified (NOS), a refractory anemia (RA) possibly related to the treatment of a multiple myeloma diagnosed 4 years before, and a refractory anemia with excess of blasts in transformation (RAEB-t) evolving rapidly towards an acute myeloid leukemia (AML). There were 2 male and 2 female patients, aged 70, 70, 76 and ? (Fan et al., 1988; Avanzi et al., 1989; Fan and Rizkalla, 2003; Adeyinka et al., 2007).

Prognosis
Data on (short term) evolution is only available in the two myeloid cases: the RA case remained well 4 months after diagnosis, while the RAEB-t/AML case died shortly after diagnosis.

Cytogenetics

Cytogenetics morphological
The four karyotypes were complex; four of four patients also had -5/del(5q), two patients had +6 (the NHL-NOS and the RA cases), and one had +i(6)(p10) (the follicular NHL case), two had complete or partial deletion of 17p (the NHL-NOS and the RAEB-t/AML cases), four of four cases presented whole arm translocations: der(1;15)(q10;q10) (the NHL-NOS case), i(6)(p10) (the follicular NHL case), dic(14;14)(p11;p11) (the RA case), i(17)(q10) (the RAEB-t/AML case).

Genes involved and proteins

Note
Genes involved in this structural anomaly are unknown.

References


This article should be referenced as such: