Leukaemia Section
Short Communication

t(2;4)(p23;q25-q35)
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Clinics and pathology

Disease
Myeloid lineage, described in five cases:
- myelodysplastic syndromes (MDS) to AML-M2 (two cases),
- de novo acute myeloid leukemia (AML)-M2 (two cases),
- agnogenic myeloid metaplasia (AMM) (one case).

Epidemiology
3F/2M, AGE 41-81 yrs (average = 67.8 yrs).

Prognosis
Two patients with AML achieved complete remission.

Cytogenetics

Note
In all five patients, no cytogenetically normal cells were observed at the time of the diagnostic cytogenetic study.

Additional anomalies
The four patients with AML had no additional abnormalities; the patient with AMM also had an interstitial deletion of 13q. Metaphase FISH analysis was performed on the AMM patient, using whole chromosome paints for chromosomes 2 and 4. FISH revealed a complex insertion of chromosome 4 into chromosome 2, with resultant 2p23;4q31 fusion and deletion of 2p23->2pter.

Variants
Metaphase FISH analysis of one patient with AML also suggested deletion of 2p23->2pter.

Genes involved and proteins

Note
Deletion of 2p has been suggested as a recurrent abnormality in AML.

References

This article should be referenced as such: