

Leukaemia Section

Short Communication

t(11;12)(q23;q13) (/HMGA2)

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Clinics and pathology

Disease

Treatment related myelodysplastic syndrome (t-MDS).

Epidemiology

Only 1 case to date: a 48yr old female patient with refractory anaemia with excess of blasts (RAEB1) 4 yrs after treatment of a M0-ANLL with a normal karyotype.

Prognosis

The RAEB evolved towards a M2-ANLL and the patient died 6 mths after diagnosis.

Genes involved and proteins

HGMA2

Location

12q15

Protein

Probable role in regulation of cell proliferation (transcriptional regulation of cell cycle and DNA repair genes).

Result of the chromosomal anomaly

Fusion protein

Description

Ectopic expression of HMGA2.

References

Odero MD, Grand FH, Iqbal S, Ross F, Roman JP, Vizmanos JL, Andrieux J, Lai JL, Calasanz MJ, Cross NC. Disruption and aberrant expression of HMGA2 as a consequence of diverse chromosomal translocations in myeloid malignancies. *Leukemia*. 2005 Feb;19(2):245-52

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